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Petroleum and Energy Consultants Registered in Rocky Mountain States Oil & Gas Production

BURKHALTER ENGINEERING, INC.

751 Horizon Ct., Suite 245 P.O. Box 60095 Grand Junction, Co 81506 Telephone (970) 243-6060 Fax (970) 243-6015 Mobile (970) 260-0765

October 4, 2004

Division of Oil, Gas & Mining P.O. Box 145801 Salt Lake City, UT 84114-5801

Re: APD State # 2-3

ML-22208, Grand County, UT

To Whom It May Concern:

Enclosed are three copies of the referenced APD requesting drilling permit for a vertically drilled well in the San Arroyo Field. Your people (Bart Kettle) have already done an onsite of the surface location when we were planning to drill a directional hole. We have changed plans and plan to drill a vertical well, hence the resubmittal of the APD.

Please call if you have questions/need additional information.

Very truly yours,

J. N. Burkhalter, PE

RECEIVED

OCT 0 6 2004

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

001

	FORM 3
	D REPORT [
AL LEASE NO:	6. SURFACE:
208	State
AN, ALLOTTEE OR T	RIBE NAME:
CA AGREEMENT N	AME
NAME and NUMBER:	
#2-3 AND POOL, OR WIL	DCAT:
Arroya Ea	SA Canfor NSHIP, RANGE,
OTR, SECTION, TOW NAM:	NSHIP, RANGE,
V 2 16S	24E S
ПҮ:	13. STATE: UTAH
d	
ACRES ASSIGNED	ro this well:
RIPTION:	
483 44	2156
eks	
	·
D SLURRY WEIGHT	
15 lb/gal	
11 lb/gal	
14 lb/gal	
14 15/941	
	-
NY OTHER THAN TH	E LEASE OWNER
•	
<u>t</u>	

							, 5 .5
	,	APPLICAT	TON FOR I	PERMIT TO	DRILL	5. MINERAL LE ML-22208	
1A. TYPE OF WO	DRK: D	RILL 🔽	REENTER 🗌	DEEPEN		7. IF INDIAN, AL	LLOTTEE OR TRIBE NAME
B. TYPE OF WE	ELL: OIL	GAS 🗸	OTHER	SIN	GLE ZONE 🗹 MULTIPLE ZON	8. UNIT or CA A	AGREEMENT NAME:
			• · · · · · · · · · · · · · · · · · · ·		- WIGHT LE ZON	'타니	
2. NAME OF OPE	ERATOR: Energy, LL	C				9. WELL NAME	
3. ADDRESS OF					PHONE NUMBER:	State #2-	POOL, OR WILDCAT:
P.O. Box 1		_{CITY} Midlaı	nd _{STAT}	E TX ZIP 79	702 (432) 697-7221	San-Arro	yo East Cango
4. LOCATION OF	WELL (FOOTAGE	ES)			LEIEURY 20 IIIII	11. QTR/QTR, S	SECTION, TOWNSHIP, RANGE,
AT SURFACE:	2536 FNL	1858 FWL,	Sec 2, T16S,	R24E, SLM	651548 X 39.4448 4367419 Y -109, 23887	SENW	2 16S 24E S
AT PROPOSED	PRODUCING ZO	NE: Same as	Surface		1 101, 23 887		
14. DISTANCE IN	MILES AND DIRE	CTION FROM NEA	REST TOWN OR POS	T OFFICE:		12. COUNTY:	13. STATE:
37 miles	northwest c	of Mack, CO				Grand	UTAH
15. DISTANCE TO	O NEAREST PROF	PERTY OR LEASE L	INE (FEET)	16. NUMBER O	F ACRES IN LEASE:	17. NUMBER OF ACRE	ES ASSIGNED TO THIS WELL:
1858'					640		80
18. DISTANCE TO	O NEAREST WELL	(DRILLING, COMP	LETED, OR	19. PROPOSED	DEPTH:	20. BOND DESCRIPTION	ON:
1900		,	•		8,000	No_0437483	442156
21. ELEVATIONS	(SHOW WHETHE	R DF, RT, GR, ETC	.):	22. APPROXIM	ATE DATE WORK WILL START:	23. ESTIMATED DURA	
8375' Grn	nd			10/15/20	004	4 to 5 weeks	
24.			PROPOSI	ED CASING A	ND CEMENTING PROGRAM		
SIZE OF HOLE	CASING SIZE,	GRADE, AND WEI		SETTING DEPTH		ANTITY, YIELD, AND SLU	IRRY WEIGHT
12 1/4"	8 5/8"	J55	24 lb	250	Regular, 120 sx	1.3 cuft/sk	15 lb/gal
8 3/4"	7"	J55	23 lb	3,900	Hall. Light, 265 sx	2.73 cuft/sk	11 lb/gal
6 1/2"	4 1/2"	J55	11.6 lb	8,000	Thixotropic, 175 sx	.45 cuft/sk	14 lb/gal
					•		
		W. H		- 8°			
				·····			
·	<u> </u>				1		
25.	***			ATTA	CHMENTS		
VERIFY THE FO	LLOWING ARE AT	TACHED IN ACCOR	DANCE WITH THE U	TAH OIL AND GAS C	ONSERVATION GENERAL RULES:		
⊘ WELL PL	AT OR MAP PRES	PARED BY LICENSE	D SURVEYOR OR EN	ICINEED	COMPLETE DRILLING PLAN		
₩ EVIDENO	CE OF DIVISION C	F WATER RIGHTS	APPROVAL FOR USE	OF WATER	FORM 5, IF OPERATOR IS P	RSON OR COMPANY OT	THER THAN THE LEASE OWNER
		. 500.2		· · · · · · · · · · · · · · · · · · ·			
NAME (PLEASE	PRINT) J. N. E	Burkhalter		···	TITLE Consulting Er	gineer/Agent	
SIGNATURE	1.11.	Surhlita	th		DATE 9/30/2	004	
		- There ha			unit		
(This space for Sta	ite (use only)			Section 186 -	Approved by the	7	
	د ان				Utan Division of	4	
API NUMBER AS	SIGNED: <u>43</u>	3-019-31	411		II, GAPROWLET MANING	ſ	RECEIVE
				Date:	N-102-0411		
					プースロープリナ	π	OCT 0 6 200

DIV. OF OIL, GAS & MINING

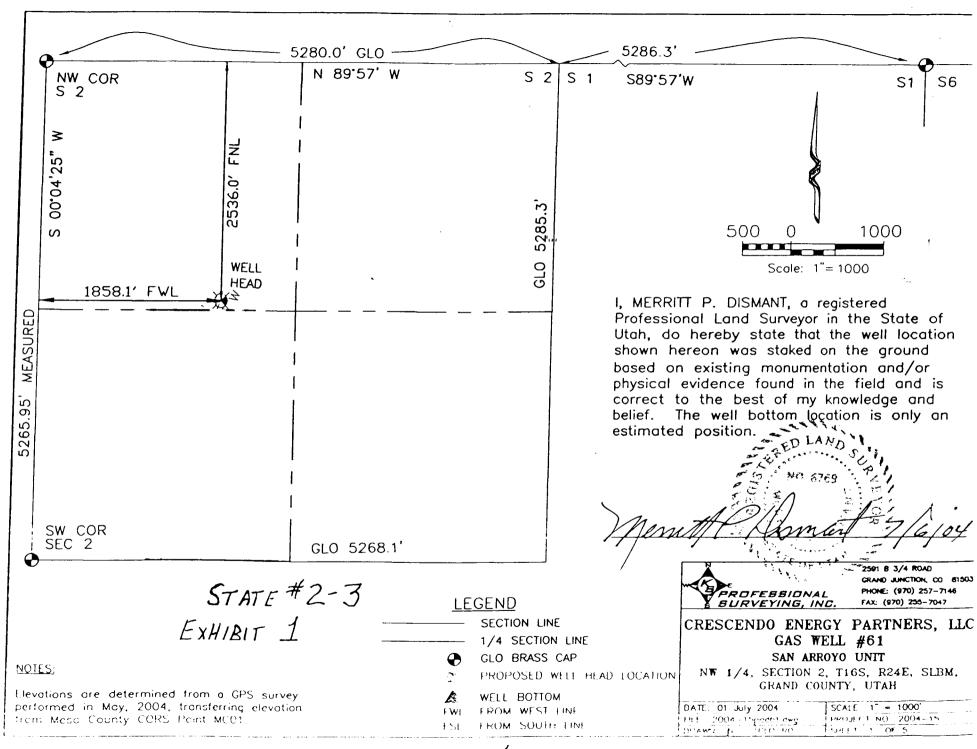


EXHIBIT I

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

FORM 5

· ·	DESIGNATION OF AGENT OR OPERATOR	
The undersigned is, on	record, the holder of oil and gas lease	
LEASE NAME:	STATE LEASES	
LEASE NUMBER:	Utah Leases ML-4113 & ML-22208	
and hereby designates		
NAME:	J. N. Burkhalter	
ADDRESS:	P.O. Box 60095	

Grand Junction

as his (check one) agent 🖸 / operator 🗔, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

state CO

zip 81506

(Describe acreage to which this designation is applicable. Identify each oil and gas well by API number and name. Attach additional pages as needed.)

ML-4113: All of Sec 16, T16S, R25E, SLM, Grand County

ML-22208; All of Sec2, T16S,R24E, SLM, Grand County

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with a Figure Compliance with a F

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: 7/22/04

BY: (Name) JAMES J. OSBORNE
(Signature) JAMES J. OSBORNE
(Signature) JAMES J. OSBORNE
(Address) 1031 ANDREWS HICHERRY, SUM 21, 1031 ANDREWS HICHERRY SUM 21, 1031 ANDREWS HICHER

(5/2000)

STATE #2-3

STATE LEASE

- 1. DRILLING PLAN
 - a. Name of Well: State #2-3
 - b. Surface Location of Well: 2536' FNL, 1858' FWL, Sec 2, T16S, R24E, SLM

Bottom Hole Location: Same

Grand County, Utah

- c. State Lease No. ML-22208
- d. Ungraded ground elevation: 8375' above sea level
- e. The surface formation: Cretaceous Mesa Verde
- f. **Drilling Equipment:** Rotary drilling equipment will be used to drill the well to a TD of 8000' TVD and run casing. Standard 9" 3000 lb BOP double ram stack will be employed. A completion rig will be employed to complete the well.
- g. The Total Depth of the well is planned to be 8000'± TVD.
- h. Tops of Geologic Markers:

Surface: Mesa Verde Formation
Castle Gate 3500' TVD
Dakota 7000' TVD
Morrison 7250' TVD
Total Depth 8000' TVD

i. Estimated depths of fluid-bearing formations:

Castle Gate: gas/water 3500' TVD Dakota: gas/water 7100' TVD Morrison: gas/water 7350' TVD

j. The primary geologic objective is:

7250
Dakota/Morrison: 7100 to 7350 TVD Per Newt Burkhalter 12/2/04

k. Casing:

Surface: A 12 1/4" surface hole will be drilled to 250' and 8 5/8" 24 lb new J55 csg will be run to 250' and cemented to surface with 120 sx Class "G" (regular) cement containing 2% CaCl, 1/8 lb/sk Floseal, density 15.6 lb/gal, yield 1.18 cuft/sk.

Dues

Intermediate: An 8 3/4" hole will be drilled through Castlegate to approximately 3900' depending on geology and 7" 23 lb new J55 csg will be run and

Page 2 Drilling Plan Well: State #2-3

cemented with 265 sx Halliburton Light Cement containing 23.5 lb/sk Class "G" cement, 52.375 lb/sk Poz, 7.64 lb/sk Lime, 6.11 lb/sk Gel, 0.25 lb/sk polyeflake. Slurry weight 11.00 lb/gal, yield 2.73 cuft/sk.

Production: A 6 1/2" hole will be drilled to projected depth of 8000'± depending on geology, and 4 ½" 11.6 lb new J55 csg will be run to TD and cemented with 175 sx thixotropic cement comprised of Class "G" cement, 10 lb/sk Calseal, 0.2 lb/sk Halad 344, 5 lb/sk gilsonite, density 14.2 lb/gal, yield 1.44 cuft/sk to cover all possible porous zones with a minimum of 200' of cement.

- I. **Pressure Control:** A standard 9" 3000 lb double ram BOP will be flanged up and tested initially and monthly thereafter to TD. Rams will be operated during trips.
- m. **Mud Program:** Fresh gel mud consisting of native clays, fresh water and bentonite will be used for the surface hole. Mud with at least 2% KCI (potassium chloride) will be used for the intermediate and production holes.
- n. Testing, Logging and Coring Programs:

Testing: If returns indicate the need for a DST, testers will be called.

<u>Mud Logging</u>: A mud logging unit will be employed out from under surface pipe to evaluate any coals above the Castlegate.

Open Hole Logging: Electric and porosity logs will be run in open hole after intermediate casing depth is reached and after TD is reached.

<u>Cased Hole Logging:</u> A Gamma ray correlation and cement bond log will be run prior to perforating in cased hole.

Coring Program: No coring is planned for this well.

- o. No abnormal pressures or H₂S is anticipated in this well.
- p. **Anticipated spud date** is middle October, 2004. Drilling time will be approximately four weeks from spud to move off of the drilling rig.
- 2. **BOP TEST PROCEDURES:** Immediately after nippling up the double ram BOP to the surface pipe, professional testers will be called to the location and BOP tested to 3000 psi, both sets of rams, valves and flanges.

3. MULTI-POINT SURFACE USE PLAN (13-Point Plan)

- a. **The land survey** for the location was performed by KS Professional Surveying, Inc., of Grand junction, Colorado. Cultural resources were cleared by Mike Piontkowski of Uncompangre Archaeological Consultants, Grand Junction, CO.
- b. (See Map) To reach the location from Mack, CO, proceed westerly on old Hwy 6 approximately 10.0 miles to San Arroyo Road, turn right (north), stay on main traveled road for approximately 17 miles to San Arroyo plant. Stay on main traveled

road up through switchbacks for approximately 7 miles to radio towers. Proceed westerly (Hay Canyon/PR Spring road) for approximately 5 miles to State #2-3 location.

- c. Access Road: See Map. The State #2-3 well is a development well. The access road will be a short road about 30 yds long from the existing road and crossing the main pipeline in the area.
- d. Planned Access Road: The location is just off existing road. A culvert will be required at the turnoff from the existing road, and adequate ramping and protection will be required to protect the existing gas pipeline.
- e. Wells within a one-mile radius of proposed well:
- 1) There are no known water wells within the one-mile radius.
- 2) There are two (2) known P&A wells within the one-mile radius. S 1/2 SE Sec 35, T15.5S, R24E, SLM SW NE SW Sec 35, T15.5S, R24E, SLM
- 3) There are no known salt water disposal wells in the one-mile radius
- 4) There are three (3) known producing wells in the one-mile radius:

NW NE SE Sec 2, T16S, R24E, SLM SE NW NW Sec 2, T16S, R24E, SLM

SW NE NW Sec 11, T16S, R24E, SLM

- 5) There are no known currently permitted wells in the one-mile radius.
- 6) There are no known monitoring wells in the one-mile radius
- f. Production facilities such as separators, dehydrators, flow meters and tanks will be located on the disturbed portion of the well pad. If gravel is needed for foundation under tanks or gas processing equipment, it will be hauled in. All other material will be obtained from the site such as dirt for the dikes around tanks.
- g. Above ground structures will be painted according to State selected colors.
- h. Reserve Pit: Will be fenced on three sides during drilling. After the drilling rig is moved out, Reserve Pit will be fenced on fourth side and fence maintained for the life of the pit – until final reclamation.
- i. Tanks or Tank Batteries: A tank or tank battery will be surrounded by an impervious dike of sufficient size and height to contain 110% of the largest tank in the battery.
- j. If any oil/liquid hydrocarbons resulting from drilling or completion end up in the pit, the pit will be flagged/netted.
- k.Off-Site Facilities: No off-drill pad facilities are anticipated for the well. Condensate will be stored on the drill pad and gas piped off to the sales pipeline nearby.

- I. **Proposed Pipeline Facilities:** The Sales Gas line will be installed to the south, staying on existing Lease and hook up to existing pipeline on existing lease. (See Exhibit 2). After completion and testing, a Sundry Notice will be filed describing the pipeline needed to produce this well.
- m. Location and Type of Water Supply: Water for mixing drilling mud and cement will be trucked from the Ute Water facility at Mack, CO, approximately 39 miles from the location. Ute water is purified domestic water and will not cause any deleterious affects to the environment.
- n. **Source of Construction Materials:** No material will be removed from State owned sources. If gravel is needed for foundation under production facilities, there are several commercial gravel pits in the area. The dike around the tank will be constructed from dirt found on the location.
- o. **Methods of handling waste disposal:** Design of pit and its usage. Sewage disposal. Garbage and trash handling.
 - A. The reserve pit will be designed to prevent the collection of surface runoff. The pit will be lined with a 12-mil or thicker polyethylene to prevent leakage of fluids. The liner will be rolled in place and recurred at the ends, i.e. buried on the top of the pit berms. Prior to use, the reserve pit will fenced "stock tight" on three sides, the fourth side will be fenced at the time of rig release and removal, at which time the pit will be flagged. Drilling fluids and cuttings will be constrained in the reserve pit.
 - Fluids in the reserve pit will be allowed to evaporate prior to being backfilled. Pit will remain fenced until backfilled.
 - B. Produced liquid hydrocarbons will be constrained in test tank(s) during completion and testing.
 - C. Sewage will be handled in self-contained, chemically treated portable toilets and contents hauled off location to an authorized facility in accordance with State and local regulations.
 - D. Garbage and other trash will be contained in an acceptable trash receptacle, which will be enclosed. Refuse will be transported to an approved sanitary landfill upon completion of operations.
 - E. Trash will be picked up if scattered and contained in receptacles during drilling/completion/construction operations.
- p. Ancillary Facilities: None Required.
- q. **Well site layout** including plats, cuts, fills, cross sections, parking for vehicles, top soil storage, location of pits including reserve pit, erosion control.

- A. See Survey Plats.
- B. Cut and fill cross sections indicated on survey exhibits. Sufficient material will be available to backfill the reserve pit after drilling and completion activities.
- C. All equipment will be confined to the access road, pad and areas specified in the APD.
- D. Prior to construction, all topsoil will be removed from the entire site and stockpiled as directed by the State during the onsite. Topsoil will be stripped to a depth of 6 to 8 inches where possible.
- E. Soil material and overburden will not be pushed over side slopes or into drainages. All soil material disturbed will be placed in an area where it can be retrieved.
- F. The location (including reserve pit) will be designed to prevent the collection of surface runoff.
- G. Adequate erosion control barriers will be installed at the drill pad to minimize storm water runoff. Water drainage upslope from the drill pad will be addressed at the time of construction to keep it from ponding on the pad.

r. Surface Reclamation Plans:

- A. Rat and mouse holes will be backfilled and compacted from bottom to top immediately upon release of the drilling rig from the location.
- B. Backfilling of the pit will be done when the contents have been sufficiently dewatered.
- C. Production Operations:
 - a. If the well is productive, areas not required for operations will be contoured and water barred to support vegetation and reduce erosion. All disturbed areas will be seeded with seed mixture prescribed by the State. Seeding will be done after September 15th and/or prior to ground frost or seed will be planted after the last frost and before May 15th. Slopes too steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
 - b. Noxious weeds will be controlled on the location in accordance with State guidelines.
 - c. Rehabilitation will begin upon the completion of the well. Complete rehabilitation will depend on weather conditions and the amount of time required to sufficiently dewater the reserve pit.

s. Abandoned Well Plans:

A. In the event of a dry hole, the location will be re-contoured, the top soil will be distributed evenly over the entire location. The seed bed will be prepared by disking to a depth of four(4) to six(6) inches following the contour. Seed will be drilled on the contour to a depth of 0.5 inches, followed by cultipaction to compact the seed bed, preventing soil loss. Certified seed will be used with a minimum germination rate of 80% and minimum purity of 90%.

B. Water bars, either for a producing well or a dry hole, will be constructed at least one(1) foot deep on the contour with approximately two(2) feet of drop per 100 feet of waterbed to ensure drainage and extend into established vegetation. All water bars will be constructed with berm on the downhill side to prevent erosion from occurring and sitting in the trench.

Water bar spacing on the location will be as follows:

<u>% Slope</u>	Spacing Interval
2 or <	200'
2 to 4	100'
4 or 5	75'
5 or >	50'

C. Notice of Intent to Abandon and Subsequent Report of Abandonment will be submitted for approval.

t. Surface Ownership and ROW Ownership:

Surface Ownership: State of Utah

ROW Ownership: State of Utah

u. Other:

A. Cultural Resource Inventory: A Class III Cultural Resource Inventory has been conducted by Mike Piontkowski of Uncompangre Archaeological Consultants.

The survey finding was that <u>no cultural resources were found on or near the location.</u>

- B. Surface use of Area: Surface use of area is for grazing livestock, big game hunting and production of oil & gas.
- C. Fire Suppression: Operator will be responsible for the prevention and suppression of fires on public lands caused by its employees, contractors, or subcontractors.
- D. Hazmat: Operator maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds and/or substances which are used during the course of construction, drilling, completion and production operations for this project. Hazardous materials (substances) which may be transported across these lands may include drilling mud, cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/stimulation activities such as flammable or

Combustible products and acids/gels (corrosives).

The opportunity for Superfund Amendments and Reauthorization ACT (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous substances, EHS, and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

u. Operators Representative and Address and a Certification:

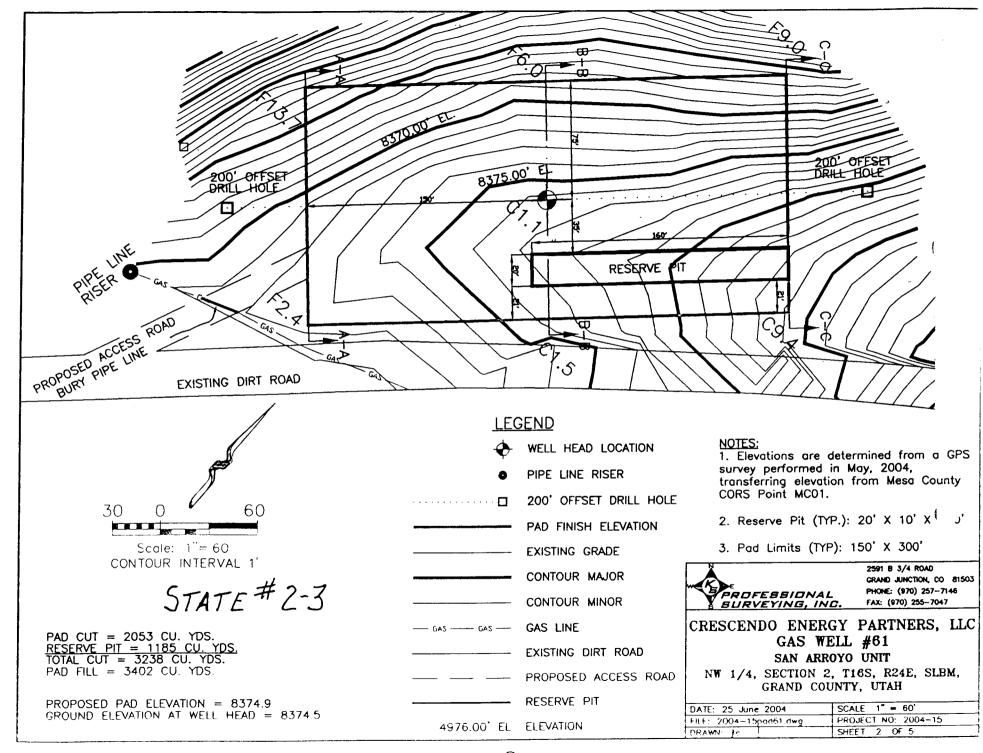
CERTIFIFCATION: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Crescendo Energy, LLC and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of false statement.

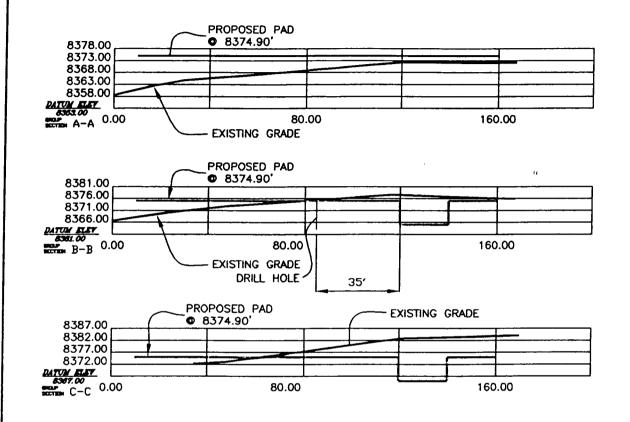
Date: 30 September 2004

Name & Title: J. N. Burkhalter, PE, Consulting Engineer

4. Plats/Maps Provided:

- a. Exhibit 1: Certified Location Plat
- b. Exhibit 2: Pit and Pad Layout
- c. Exhibit 3: Cross Section Pit and Pad
- d. Exhibit 4: Shematic of BOPE
- e. Topo Map A: Topo and Access
- f. Topo Map A-1: Road Map 2
- g. Topo Map B: Detail Road Map
- h. Topo Map C: One Mile Radius Map





Site Volume Table: Unadjusted

	Cut	Fill	Net
PAD61	2053	3402	1349 (F)
RESEVRE PIT	1185	0.102	.0.0 (1)
TOTALS	3238	3402	164 (F)

STATE # 2-3

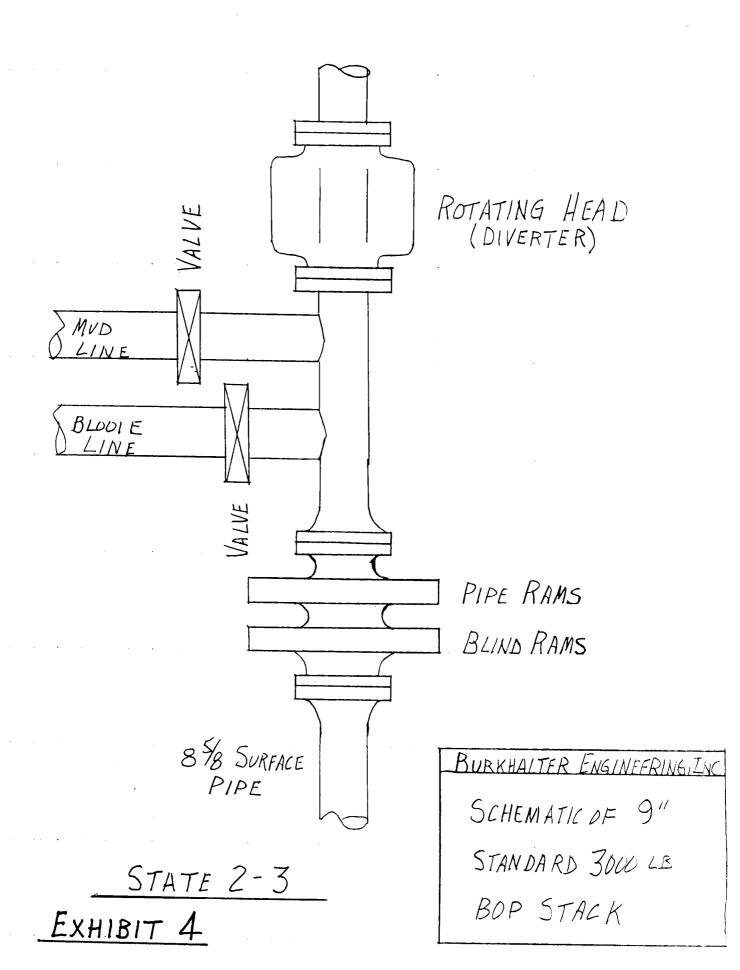
PROFESSIONAL SURVEYING, INC. 2591 B 3/4 ROAD GRAND JUNCTION, CO 81503 PHONE: (970) 257-7146 FAX: (970) 255-7047

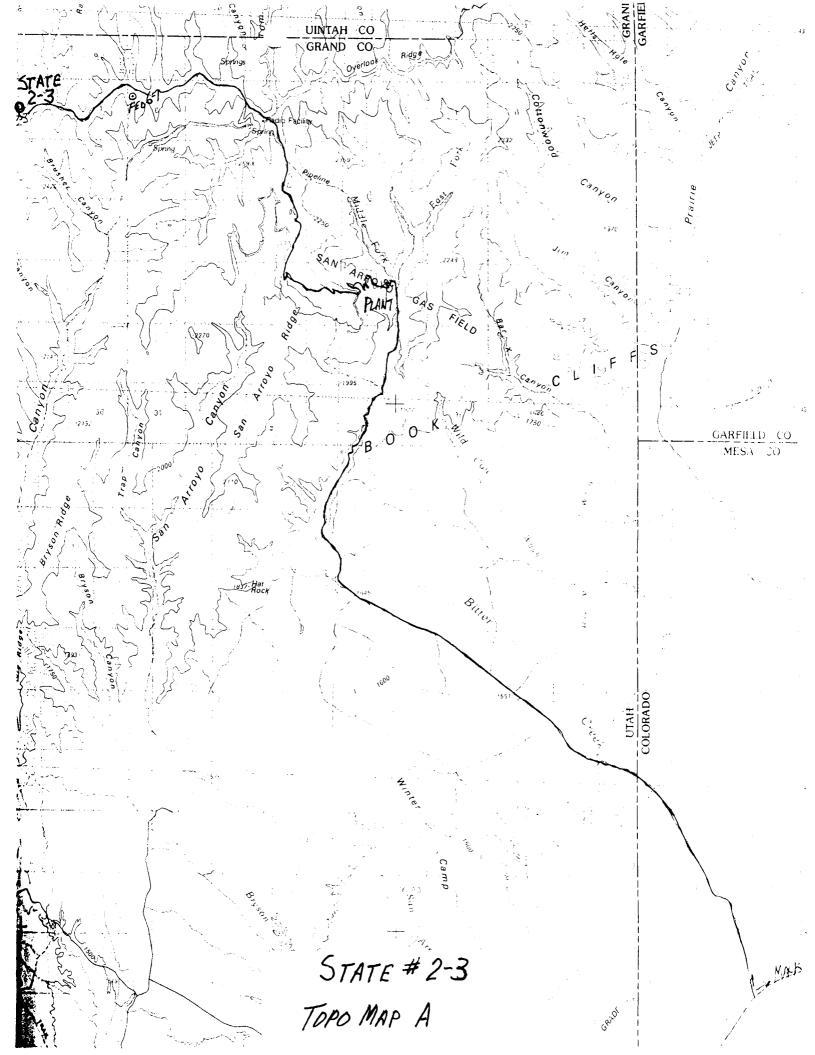
CRESCENDO ENERGY PARTNERS, LLC GAS WELL #61

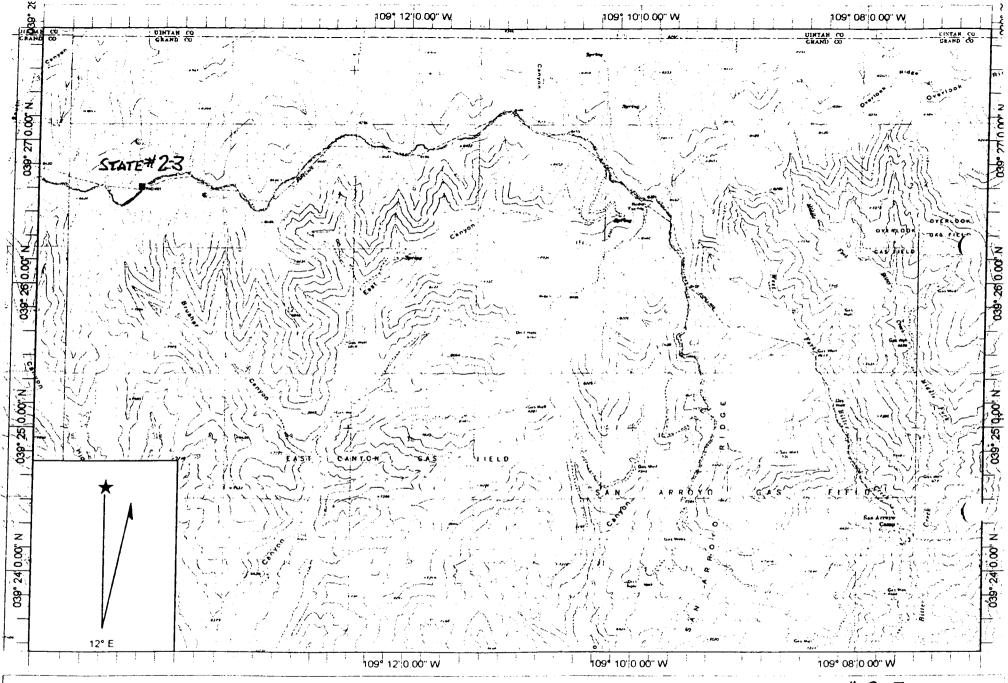
SAN ARROYO UNIT

NW 1/4, SECTION 2, T16S, R24E, SLBM, GRAND COUNTY, UTAH

DATE: 25 June 2004	SCALE 1" = 60'
FILE: 2004 - 15pad61.dwg	PROJECT NO: 2004-15
DRAWN: jc	SHEET 3 OF 5







Copposit C. Dell Madelle

Name SAN ARROYO RIDGE

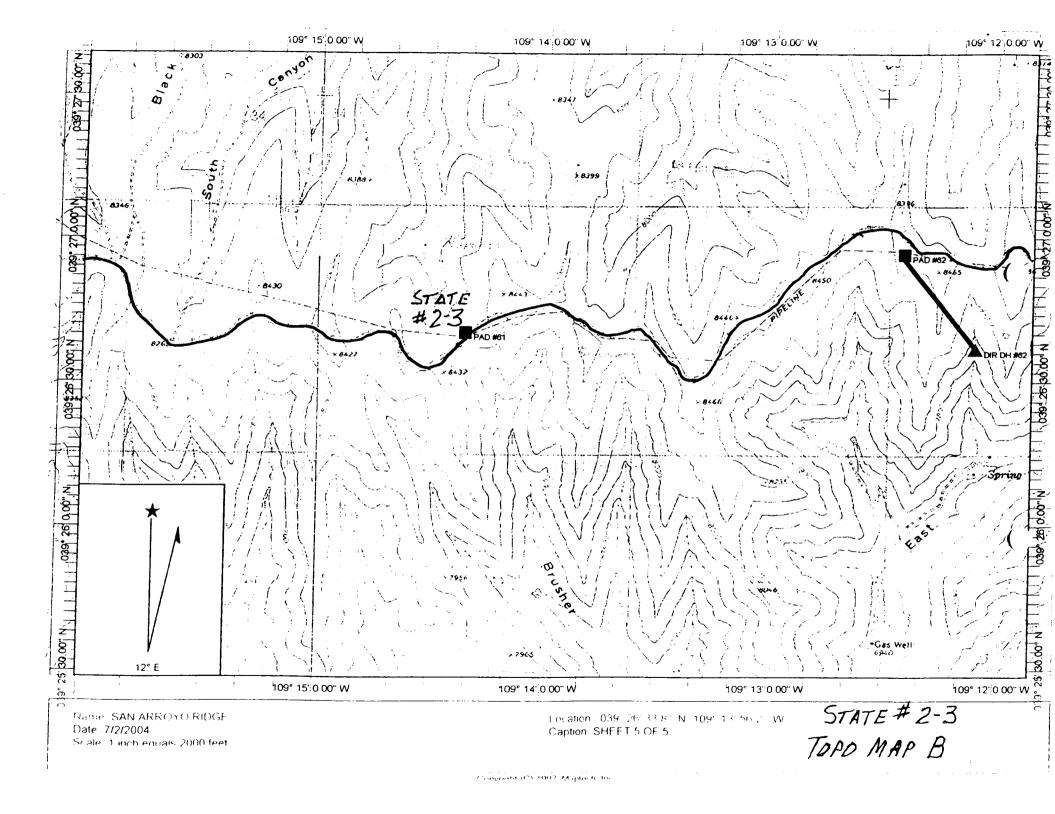
Date 7/1/2004

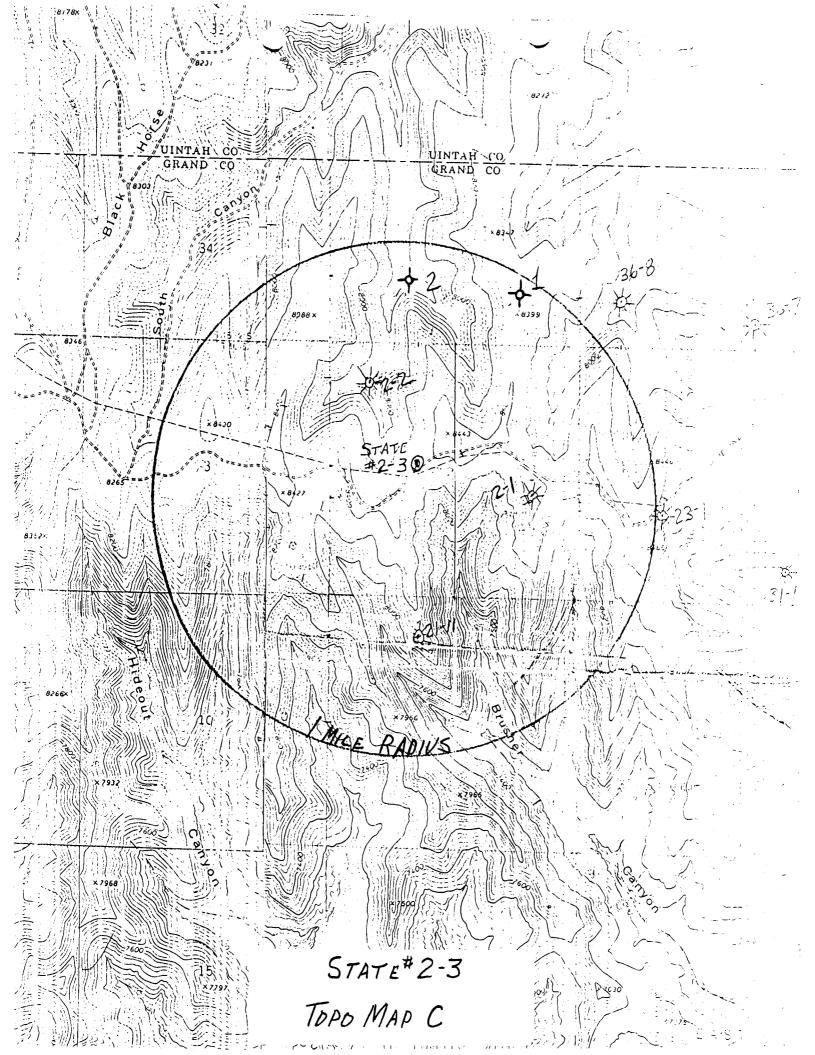
Scale 1 metroquals 4000 feet

Location | 039° 25° 37.1° N | 109° 11° 05' 0° W | Caption | SHEET 4 OF 5

STATE # 2-3

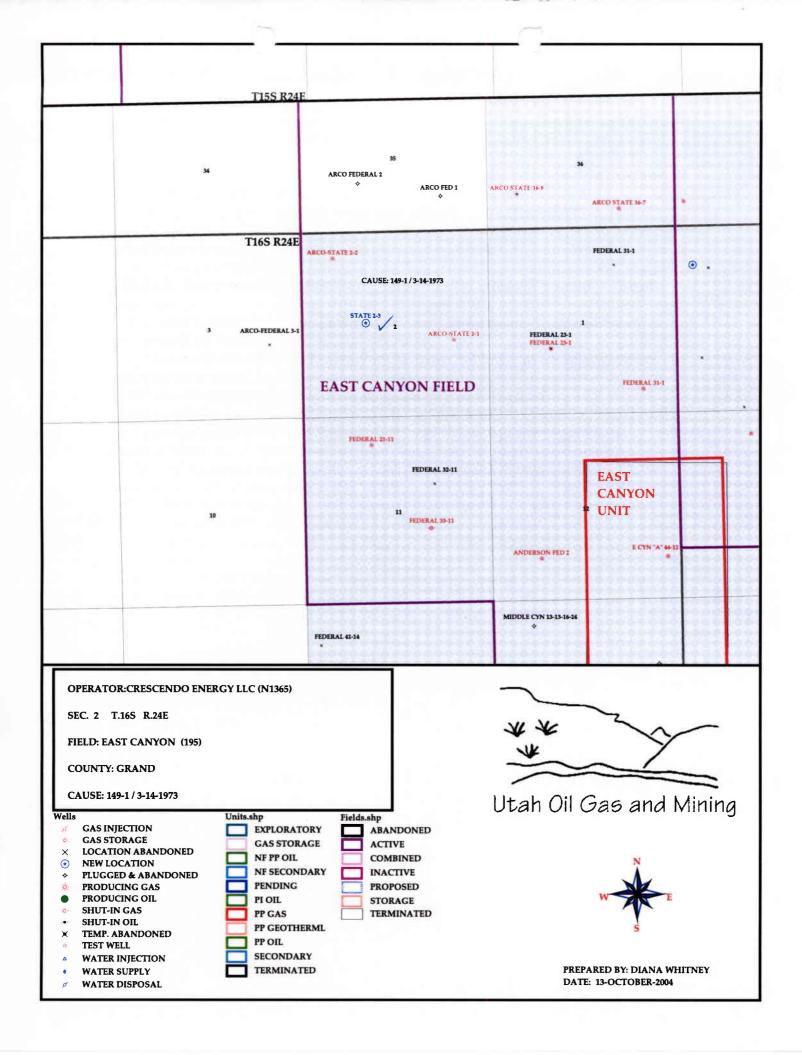
TOPO MAP A-1





		WORKSHEET					
0 0 4		APPLICATION	FOR	PERM	IT '	TO	DRILL
APD RECEIVED:	10/06/2004				API	NC	ASSI

APD RECEIVED: 10/06/2004	API NO. ASSIGN	ED: 43-019-314	111
WELL NAME: STATE 2-3 OPERATOR: CRESCENDO ENERGY LLC (N1365) CONTACT: J.N. BURKALTER	PHONE NUMBER: 4	32-697-7221	
PROPOSED LOCATION: SENW 02 160S 240E	INSPECT LOCATE	N BY: /	/
SURFACE: 2536 FNL 1858 FWL BOTTOM: 2536 FML 1858 FWL	Tech Review	Initials	Date
GRAND	Engineering	DKO	12/2/04
EAST CANYON (195)	Geology		17709
LEASE TYPE: 3 - State LEASE NUMBER: ML-22208	Surface		
SURFACE OWNER: 3 - State PROPOSED FORMATION: MRSN COALBED METHANE WELL? NO	LATITUDE: 39.4 LONGITUDE: -109		
RECEIVED AND/OR REVIEWED: Plat Bond: Fed[] Ind[] Sta[] Fee[] (No. 442156) Potash (Y/N) Noil Shale 190-5 (B) or 190-3 or 190-13 Water Permit (No. C004) RDCC Review (Y/N) (Date:) NW Fee Surf Agreement (Y/N)	R649-3-3. V Drilling Un Board Caus Eff Date: Siting: 5	General From Qtr/Qtr & 920 Exception it e No:	Between Wells 1973 1975 1975 1975 1975 198
COMMENTS: Needs Presite	(9-14-04)		
STIPULATIONS: 1- Surface (sq (mt 5) 2-In allordance with Cause No 149-1, No most Sand Intervial or Zone in each drilling of 3- Statement of	init (W/2 Sec.	Shall produce	e from the same



ON-SITE PREDRILL EVALUATION Division of Oil, Gas and Mining

OPERATOR: Crescendo Energy, LLC

WELL NAME & NUMBER: State #2-3

API NUMBER: 43-019-31411

LEASE: State FIELD/UNIT: East Canyon

LOCATION: 1/4,1/4 SENW Sec: 2 TWP: 16S RNG: 24E 2000 FSL 1520 FWL LEGAL WELL SITING: 460 F SEC. LINE; 460 F 1/4,1/4 LINE; 460 F ANOTHER WELL.

GPS COORD (UTM): X =651548 E; Y =4367419 N SURFACE OWNER: SITLA

PARTICIPANTS

Bart Kettle(DOGM), Tony Wright (DWR), Newt Burkhalter (Burkhalter Engineering)

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Proposed location is 37 miles northwest of Mack Colorado in Grand County Utah. The proposed location is atop of the Bookcliffs divide located adjacent to the Seep Ridge Road in an 18-20" precept zone. Mountain Browse rangelands cut by deep rocky pinion/juniper and Douglas fir canyons surround the well site. Topography to the south drops off quickly into a narrow band of P/J woodlands, with extensive salt scrub clay flats in the valley floor. Slopes are more gradual to the north, with extensive P/J woodlands eventually giving way to the salt scrub communities. Due to the dry nature of the surrounding terrain the divide portion of the Bookcliffs is classified as critical summer wildlife habitat. The Bookcliffs divide separates watersheds that drain to the north into Sweetwater Creek and the south into the Colorado River. The proposed location is located near the center of the ridge top in a small saddle, there are no perennial streams located in close proximity to the location. Drainages in the immediate area are ephemeral in nature, being dry throughout the warmer months of the year. Perennial and intermittent springs are located near the bottom of adjacent canyons, water bodies located near the ridge tops are predominantly dirt tanks developed to trap monsoon moisture for livestock watering. Access to the well site can be gained via the San Arroyo road from the Grand Valley, or the Seep Ridge Road from the Uintah Basin.

SURFACE USE PLAN

CURRENT SURFACE USE: Early fall cattle grazing, summer big game habitat, seasonal recreation, oil and gas development.

PROPOSED SURFACE DISTURBANCE: 150' x 300'

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: No known water wells. Two known P&A wells: S $\frac{1}{2}$ SE Sec 35, T 15.5 S, R 24 E and SW NE SW Sec 35, T 15.5 S, R 24 E. There are three known producing wells NW NE SE Sec 2, T 16 S, R 24 E. SE NW NW Sec 2, T 16 S, R 24 E and SW NE NW Sec 11, T 16 S, R 24 E.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Production facilities such as separators, dehydrators, flow meters and tanks will be located on-site. The Sales Gas line will be installed to the south staying on existing lease where it will be connected to an existing pipeline.

SOURCE OF CONSTRUCTION MATERIAL: On-site

ANCILLARY FACILITIES: None required

WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS? (EXPLAIN): Drilling at this location is not expected to generate significant public concern. With the exception of the fall hunting seasons there is limited public visitation into this portion of the Bookcliffs. The closest residence are located ~15 miles away at the Cripple Cowboy Ranch in the head of Bitter Creek, and the DeLambert Ranch in Main Canyon.

WASTE MANAGEMENT PLAN:

Garbage and other trash will be contained in an acceptable trash container. Refuse will be transported to an approved sanitary landfill. Sewage will be handled in self-contained portable toilets and contents hauled off location to an authorized facility in accordance with State and local regulations.

Reserve pit will be fenced and lined with a 12-mil liner prior to use. Drill cuttings will be constrained in the reserve pit. Produced liquid hydrocarbons will be constrained in test tanks during completion and testing.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: No floodplains or wetlands will be affected by the drilling of this well. Proposed location is located above the head of an ephemeral wash, pad construction is not expected to alter drainage function or sediment load.

FLORA/FAUNA: Elk, Mule Deer, Black Bear, Cougar, Bobcat, rabbits, songbirds, raptors, and lizards.

Grasses: June grass, Mutton grass, Elk sedge and Wheatgrass. Forbs: Vetch, Western yarrow, Long leaf phlox and Penstomen. Shrubs: Buckwheat, Bitterbrush, Alderleaf mountain mahogany, Utah service berry, Wyoming sage, Common snowberry, Apple berry and Gamble oak. Trees: Pinion pine and Douglas fir. Other: Prickly pear

SOIL TYPE AND CHARACTERISTICS: Light brown Sandy Clay Loam, sandstone and gray shale fragments present on surface.

SURFACE FORMATION & CHARACTERISTICS: Alternating sandstone and shale layers cut by deep canyons. Soils are erosive in nature due to lack of litter/vegetation over entire surface area and steep slopes.

EROSION/SEDIMENTATION/STABILITY: Fine soils prone to wind and water erosion when disturbed. Excessive sedimentation and erosion is not

	expected.	-		***************************************
	PALEONTOLOGICAL	POTENTIAL: None	noted	
RESEI	RVE PIT			

LINER REQUIREMENTS (Site Ranking Form attached): Liner Required

SURFACE RESTORATION/RECLAMATION PLAN

CHARACTERISTICS: 20'x160'x10'

Rat and mouse holes will be backfilled upon release of the drilling rig from location. The pit will be backfilled when the contents have been sufficiently dewatered. If the well is productive areas not required for operations will be seeded. Noxious weeds will be controlled on the location in accordance with State guidelines. In the event of a dry hole the location will re re-contoured, the topsoil distributed evenly over the entire location and then re-seeded.

SURFACE AGREEMENT: As per SITLA mineral lease.

CULTURAL RESOURCES/ARCHAEOLOGY: Class III Cultural Resource Inventory has been conducted by Uncompandere Archaeological Consultants.

OTHER OBSERVATIONS/COMMENTS

DWR classifies area as critical summer range for elk and mule deer, request to restrict construction and drilling between May 15 and July 5. DWR request that operator take actions to prevent bears from associating operations as a food source. Maintain food in bear proof containers, place trash in an enclosed container, assure that container remains closed to prevent access by foraging bears. DWR request operator inspect guy wires for bird carcasses.

ATTACHMENTS

Photos of this location were taken and placed on file.

Bart Kettle September 16, 2004 9:54
DOGM REPRESENTATIVE DATE/TIME

Evaluation Ranking Criteria and Ranking Score For Reserve and Onsite Pit Liner Requirements

Site-Specific Factors	Ranking	Site Ranking
Distance to Groundwater (feet)		
>200 100 to 200	0 5	
75 to 100	10	
25 to 75	15	•
<25 or recharge area	20	0
Distance to Surf. Water (feet) >1000	0	
300 to 1000	2	
200 to 300 100 to 200	10 15	
< 100	20	2
Distance to Nearest Municipal		
Well (feet) >5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	0
Distance to Other Wells (feet)		
>1320	0	
300 to 1320 <300	10 20	0
<300	20	
Native Soil Type	•	
Low permeability Mod. permeability	0 10	
High permeability	20	10
		
Fluid Type Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid containing significant levels of	15	
hazardous constituents	20	5
Drill Cuttings Normal Rock	0	
Salt or detrimental	10	0
Provide Provide Action (inches)		
Annual Precipitation (inches) <10	0	
10 to 20	5	
>20	10	5
Affected Populations		
<10	0	
10 to 30 30 to 50	6 8	
>50	10	0
Presence of Nearby Utility		
Conduits Not Present	0	
Unknown	10	
Present	15	0

Sensitivity Level I = 20 or more; total containment is required, consider criteria for excluding pit use. Sensitivity Level II = 15-19; lining is discretionary.
Sensitivity Level III = below 15; no specific lining is required.

_____22___ (Level ___I __Sensitivity)

Final Score

DIVISION OF OIL, GAS AND MINING APPLICATION FOR PERMIT TO DRILL STATEMENT OF BASIS

OPERATOR:	Crescendo Energy, LLC	·	
WELL NAME & NUMBER:	State#2-3		_
API NUMBER:	43-019-31411		
LOCATION: 1/4,1/4 SENW Sec:	2 TWP: 16S_RNG: 24E2	2000 FSL <u>1520</u> FWL	
Carlo and Carron d Water			
Geology/Ground Water:		ha an accompany in the hadroals at this location. A thi	:
		be encountered in the bedrock at this location. A thi	
· · · · · · · · · · · · · · · · · · ·		Tongue of the Douglas Creek Member of the Eoce	
		be encountered in permeable Tertiary age Gre	
	· · · · · · · · · · · · · · · · · · ·	The base of moderately saline ground water is found	
- · · ·		subject location. The proposed casing and cementing	
	•	that may be penetrated. This well is along the Ro	
· · · · · · · · · · · · · · · · · · ·		of East Canyon to the south and South and Railro	
•	<u>und and one surface water r</u>	rights have been filed on any area within a mile of t	<u>he</u>
proposed well site.		<u></u>	
Reviewer: Christo	pher J. Kierst	Date: 9/24/2004	
Surface:		. W (D. C. O. T W 1 . (DWD) 1 . V.	
		t Kettle (DOGM), Tony Wright (DWR) and New	
•	g), invited but choosing no	ot to attend Ed Bonner (SITLA) and Mary Hofhin	<u>e</u>
(Grand County).			
n 11 11 11 11 11 11 11	1 1/2 1// 1.1 100 1 1		
-		deer and elk summer range, therefore request made t	
		ation is one of few areas DWR is allowed to release	
		food source. Division concerned that such bears wi	
		ched. DWR requested that measures be taken to kee	
		ssociated service personal not leave food out for them	
		ed by colliding into guy wires during drilling. The	
higher precipitation zone increases	the risk for snowmelt or rai	inwaters to flood location. Due to its position at the	<u>le</u>
		d may be required to prevent water discharged from	
		location does not become flooded diversion ditche	
will be constructed on the southeast	portion of the location and	I water bars/turnouts constructed as needed on access	<u>3S</u>
road.			

Conditions of Approval/Application for Permit to Drill:

1. Construct diversion ditch around higher portions of location and water bars/turnouts along access road.

Reviewer: Bart Kettle Date: September 16, 2004

2. A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.





ON-SITE PREDRILL EVALUATION Division of Oil, Gas and Mining

OPERATOR: Crescendo Energy, LLC

WELL NAME & NUMBER: State #2-3

API NUMBER: 43-019-31411

LEASE: State FIELD/UNIT: East Canyon

LOCATION: 1/4,1/4 SENW Sec: 2 TWP: 16S RNG: 24E 2000 FSL 1520 FWL LEGAL WELL SITING: 460 F SEC. LINE; 460 F 1/4,1/4 LINE; 460 F ANOTHER WELL.

GPS COORD (UTM): X =651548 E; Y =4367419 N SURFACE OWNER: SITLA

PARTICIPANTS

Bart Kettle(DOGM), Tony Wright (DWR), Newt Burkhalter (Burkhalter Engineering)

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Proposed location is 37 miles northwest of Mack Colorado in Grand County The proposed location is atop of the Bookcliffs divide located adjacent to the Seep Ridge Road in an 18-20" precept zone. Mountain Browse rangelands cut by deep rocky pinion/juniper and Douglas fir canyons surround the well site. Topography to the south drops off quickly into a narrow band of P/J woodlands, with extensive salt scrub clay flats in the valley floor. Slopes are more gradual to the north, with extensive P/J woodlands eventually giving way to the salt scrub communities. Due to the dry nature of the surrounding terrain the divide portion of the Bookcliffs is classified as critical summer wildlife habitat. The Bookcliffs divide separates watersheds that drain to the north into Sweetwater Creek and the south into the Colorado River. The proposed location is located near the center of the ridge top in a small saddle, there are no perennial streams located in close proximity to the location. Drainages in the immediate area are ephemeral in nature, being dry throughout the warmer months of the year. Perennial and intermittent springs are located near the bottom of adjacent canyons, water bodies located near the ridge tops are predominantly dirt tanks developed to trap monsoon moisture for livestock watering. Access to the well site can be gained via the San Arroyo road from the Grand Valley, or the Seep Ridge Road from the Uintah Basin.

SURFACE USE PLAN

CURRENT SURFACE USE: Early fall cattle grazing, summer big game habitat, seasonal recreation, oil and gas development.

PROPOSED SURFACE DISTURBANCE: 150' x 300'

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: No known water wells. Two known P&A wells: S $\frac{1}{2}$ SE Sec 35, T 15.5 S, R 24 E and SW NE SW Sec 35, T 15.5 S, R 24 E. There are three known producing wells NW NE SE Sec 2, T 16 S, R 24 E, SE NW NW Sec 2, T 16 S, R 24 E and SW NE NW Sec 11, T 16 S, R 24 E.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Production facilities such as separators, dehydrators, flow meters and tanks will be located on-site. The Sales Gas line will be installed to the south staying on existing lease where it will be connected to an existing pipeline.

SOURCE OF CONSTRUCTION MATERIAL: On-site

ANCILLARY FACILITIES: None required

WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS? (EXPLAIN): Drilling at this location is not expected to generate significant public concern. With the exception of the fall hunting seasons there is limited public visitation into this portion of the Bookcliffs. The closest residence are located ~15 miles away at the Cripple Cowboy Ranch in the head of Bitter Creek, and the DeLambert Ranch in Main Canyon.

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FLORA/FAUNA: Elk, Mule Deer, Black Bear, Cougar, Bobcat, rabbits, songbirds, raptors, and lizards.

Grasses: June grass, Mutton grass, Elk sedge and Wheatgrass. Forbs: Vetch, Western yarrow, Long leaf phlox and Penstomen. Shrubs: Buckwheat, Bitterbrush, Alderleaf mountain mahogany, Utah service berry, Wyoming sage, Common snowberry, Apple berry and Gamble oak. Trees: Pinion pine and Douglas fir. Other: Prickly pear

SOIL TYPE AND CHARACTERISTICS: Light brown Sandy Clay Loam, sandstone and gray shale fragments present on surface.

SURFACE FORMATION & CHARACTERISTICS: Alternating sandstone and shale layers cut by deep canyons. Soils are erosive in nature due to lack of litter/vegetation over entire surface area and steep slopes.

EROSION/SEDIMENTATION/STABILITY: Fine soils prone to wind and water erosion when disturbed. Excessive sedimentation and erosion is not

expected.		
PALEONTOLOGICAL	POTENTIAL:	None noted

RESERVE PIT

CHARACTERISTICS: 20'x160'x10'

LINER REQUIREMENTS (Site Ranking Form attached): Liner Required

SURFACE RESTORATION/RECLAMATION PLAN

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SURFACE AGREEMENT: As per SITLA mineral lease.

CULTURAL RESOURCES/ARCHAEOLOGY: Class III Cultural Resource Inventory has been conducted by Uncompandere Archaeological Consultants.

OTHER OBSERVATIONS/COMMENTS

DWR classifies area as critical summer range for elk and mule deer, request to restrict construction and drilling between May 15 and July 5. DWR request that operator take actions to prevent bears from associating operations as a food source. Maintain food in bear proof containers, place trash in an enclosed container, assure that container remains closed to prevent access by foraging bears. DWR request operator inspect guy wires for bird carcasses.

ATTACHMENTS

Photos of this location were taken and placed on file.

Bart Kettle
DOGM REPRESENTATIVE

September 16, 2004 9:54
DATE/TIME

Evaluation Ranking Criteria and Ranking Score For Reserve and Onsite Pit Liner Requirements

TOT MODULYO CIME O	wared the armor wedger	
Site-Specific Factors	<u>Ranking</u>	Site Ranking
Distance to Groundwater (feet)		
>200	0	
100 to 200 75 to 100	5 10	
25 to 75	15	
<25 or recharge area	20	0
Distance to Surf. Water (feet) >1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200 < 100	15 20	2
Distance to Nearest Municipal	20	
Well (feet)		
>5280	0	
1320 to 5280 500 to 1320	5 10	
<500	20	0
Distance to Other Wells (feet) >1320	0	
300 to 1320	10	
<300	20	0
Native Soil Type		
Low permeability Mod. permeability	0 10	
High permeability	20	10
Fluid Type Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	5
nazardous constituents	20	<u></u>
Drill Cuttings	0	
Normal Rock Salt or detrimental	0 10	0
	10	
Annual Precipitation (inches)	0	
<10 10 to 20	0 5	
>20	10	5
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	0
>50	10	0
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	^
Present	15	0

Sensitivity Level 1 = 20 or more; total containment is required, consider criteria for excluding pit use. Sensitivity Level II = 15-19; lining is discretionary.

Sensitivity Level III = below 15; no specific lining is required.

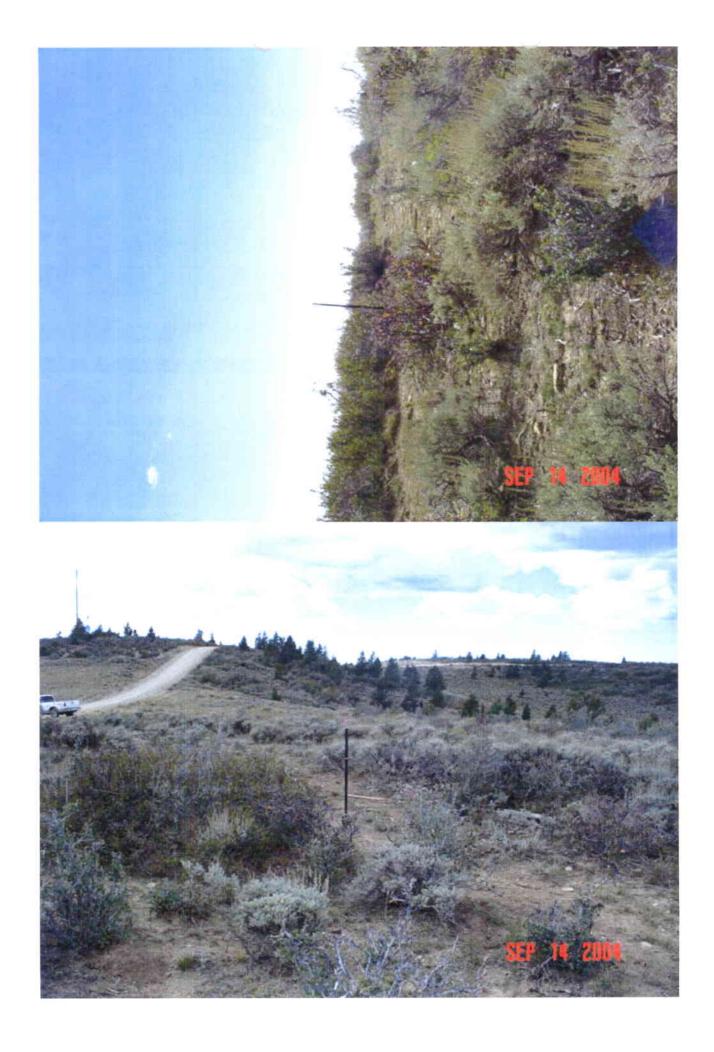
Final Score

DIVISION OF OIL, GAS AND MINING APPLICATION FOR PERMIT TO DRILL STATEMENT OF BASIS

OPERATOR:	Crescendo Energy	LLC		
WELL NAME & NUMBER:	State#2-3			
API NUMBER:	43-019-31411			
LOCATION: 1/4,1/4 SENW Sec:	2 TWP: <u>16S</u> RNG: <u>2</u>	<u>4E 2000</u> FSL <u>152</u>	<u>20</u> FWL	
Geology/Ground Water:				
Significant volumes of high quality	ground water are like	ly to be encountered	in the bedrock at the	is location. A thin
moderately permeable soil is likely	to be developed on the	e "a" Tongue of the	Douglas Creek Mer	nber of the Eocene
age Green River Formation. Qu				
River/Wasatch and Cretaceous age	Mesaverde Group stra	ata. The base of mod	<u>lerately saline grour</u>	nd water is found a
about 3,500' total depth (TD), in a		•		
program should adequately isolate				
proposes to use a 2% KCl mud to d				
suggested that a fresh water mud sy				
quality ground water. This well is a	llong the Roan Cliffs	Overlook Road (ridg	geline) and is essent	ially at the head o
East Canyon to the south and South	and Railroad Canyon	s to the north. No un	derground and one	surface water rights
have been filed on any area within	a mile of the propose	d well site.		
Reviewer: Christo	pher J. Kierst		Date: 9/24/2004	
Surface:				
On-site conducted September 14,				
Burkhalter (Burkhalter Engineering	g), invited but choosi	ng not to attend Ed	Bonner (SITLA) a	nd Mary Hothine
(Grand County).				
n 11 / 11 / 11 PWD	1 '6" 144 '.' 199	1 1		4 4 . 4
Proposed location lies within DWR				
avoid construction and drilling from				
problem bears, concern that bears w				
eventually create problems with car				
bears from foraging in trash contain				
DWR requested that operator insp				
higher precipitation zone increases		W		
bottom of a small hill, turnouts or v				-
the Seep Ridge Road from entering				
will be constructed on the southeast	portion of the location	n and water dars/turi	nouts constructed as	needed on access
road.				
Reviewer: Bart Ko	attle	Date: September	16 2004	
reviewer. Dart re	JULIO	Parc. Schringer	10, 2007	

Conditions of Approval/Application for Permit to Drill:

- 1. Construct diversion ditch around higher portions of location and water bars/turnouts along access road.
- 2. A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.





utah

State Online Services)

Agency List

Business.utah.gov

Search Utah.gov

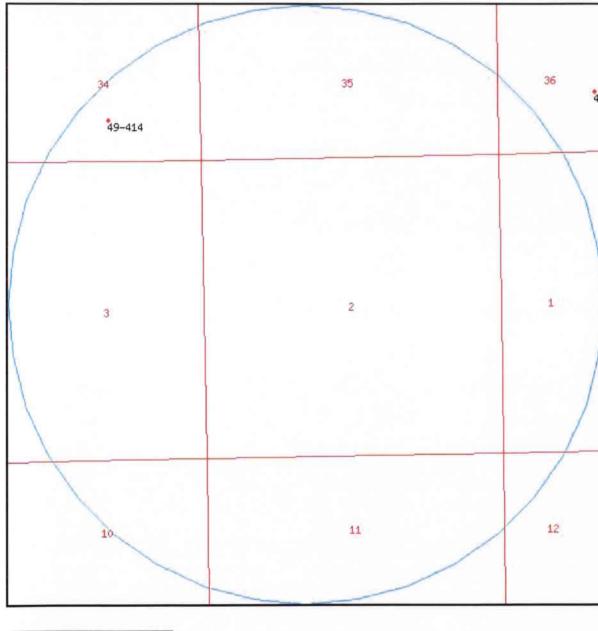


UTAH DIVISION OF WATER RIGHTS

WRPLAT Program Output Listing

Rundate: 09/24/2004 03:11 PM Version: 2004.03.26.00

Radius search of 5280 feet from a point S2536 E1858 from the NW corner, section 02, Township 16S, Range 24E, SL b&m Criteria:wrtypes=W,C,E podtypes=S,U,D,Sp,P status=U,A,P usetypes=all



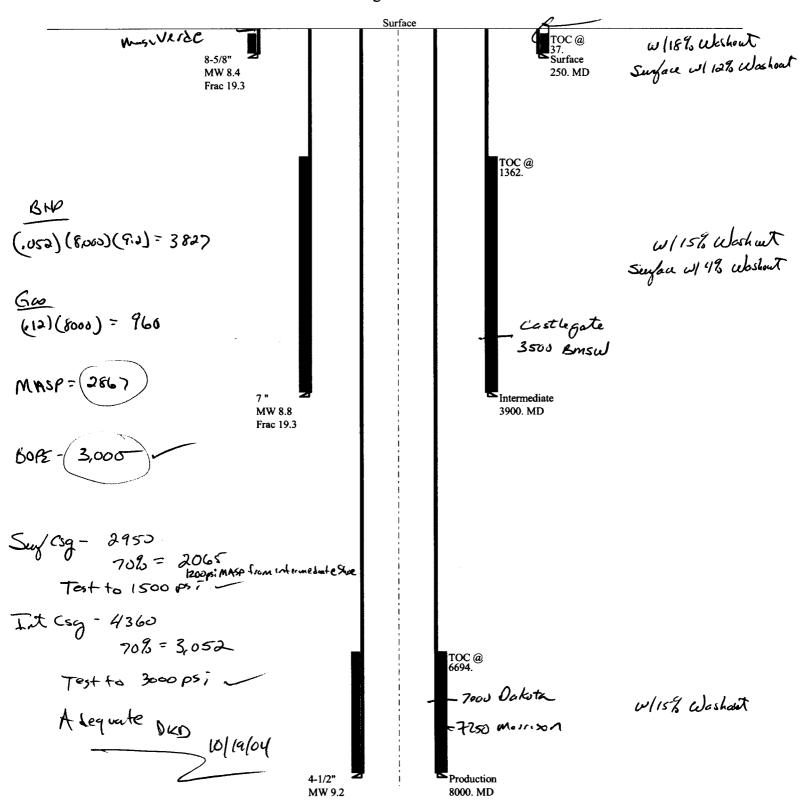


Water Rights

WR Number	Diversion Type/Location	Well Log	Status	Priority	Uses	CFS ACFT	Owner Name
49-182	Surface		P	19160221	S	0.003 0.000	FRANK A. BREWER
	N1101 E1708 SW 36 15HS 24E SL						MACK CO
							VERNAL DISTRICT USA
49-414	Surface		P	1861	OS	0.015 0.000	BUREAU OF LAND MANAGEMENT
	N700 W1650 SE 34 15HS 24E SL						170 SOUTH 500 EAST

Natural Resources | Contact | Disclaimer | Privacy Policy | Accessibility Policy

09-04 Crescendo State 2 Casing Schematic



Well name: 09-04 Crescendo State 2-3

Operator: Crescendo Energy, LLC

String type: Surface

Project ID: 43-019-31411

Fracture depth:

Injection pressure

Location: Grand County

	70 010 01711
County	

Design parameters: Collapse		Minimum design Collapse:	factors:	Environment: H2S considered?	No
Mud weight:	8.400 ppg	Design factor	1.125	Surface temperature:	65 °F
Design is based on evacu	uated pipe.			Bottom hole temperature:	
				Temperature gradient: Minimum section length:	1.40 °F/100ft 200 ft
		Burst:		_	
		Design factor	1.00	Cement top:	37 ft
Burst		•			
Max anticipated surface					
pressure:	0 psi				
Internal gradient:	0.457 psi/ft	Tension:		Non-directional string.	
Calculated BHP	114 psi	8 Round STC:	1.80 (J)		
		8 Round LTC:	1.80 (J)		
No backup mud specified	!.	Buttress:	1.60 (J)		
		Premium:	1.50 (J)		
		Body yield:	1.50 (B)	Re subsequent strings:	
				Next setting depth:	3,900 ft
		Tension is based or	•	Next mud weight:	8.800 ppg
		Neutral point:	218 ft	Next setting BHP:	1,783 psi
				Fracture mud wt:	19.250 ppg

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	250	8.625	24.00	J-55	ST&C	250	250	7.972	12
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	109	1370	12.558	114	2950	25.81	6	244	40.67 J

Prepared by:

Clinton Dworshak

Utah Div. of Oil & Mining

Phone: 801-538-5280 FAX: 801-359-3940

Date: October 14,2004 Salt Lake City, Utah

250 ft

250 psi

Remarks:

Collapse is based on a vertical depth of 250 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

09-04 Crescendo State 2-3 Well name:

Crescendo Energy, LLC Operator:

Intermediate Project ID: String type: 43-019-31411

Grand County Location:

Minimum design factors: **Environment: Design parameters:**

Collapse Mud weight:

Collapse: Design factor Surface temperature: 65 °F 8.800 ppg 1.125 120 °F Design is based on evacuated pipe. Bottom hole temperature:

1.40 °F/100ft Temperature gradient:

250 ft Minimum section length:

H2S considered?

Burst:

1.00 Cement top: 1,362 ft Design factor

Burst Max anticipated surface

pressure: 2,863 psi Internal gradient: 0.120 psi/ft Calculated BHP 3,331 psi

No backup mud specified.

Non-directional string. **Tension:**

8 Round STC: 1.80 (J) 8 Round LTC: 1.80 (J) 1.60 (J) **Buttress:** Premium: 1.50 (J)

Body yield: 1.50 (B)

Tension is based on air weight. 3,384 ft Neutral point:

Re subsequent strings:

Next setting depth: 8.000 ft Next mud weight: 9.200 ppg Next setting BHP: 3,823 psi 19.250 ppg Fracture mud wt: Fracture depth: 3,900 ft Injection pressure 3,900 psi

No

Run	Segment		Nominal		End	True Vert	Measured	Drift	Internal
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Capacity (ft³)
1	3900	7	23.00	J-55	ST&C	3900	3900	6.25	180.2
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load (psi)	Strength (psi)	Design Factor	Load (psi)	Strength (psi)	Design Factor	Load (Kips)	Strength (Kips)	Design Factor
1	1783	3270	1.834	3331	4360	1.31	90	284	3.17 J

Clinton Dworshak Prepared Utah Div. of Oil & Mining by:

Phone: 801-538-5280 FAX: 801-359-3940

Date: October 14,2004 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 3900 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

09-04 Crescendo State 2-3 Well name:

Crescendo Energy, LLC Operator:

Production Project ID: String type:

Grand County Location:

43-019-31411

Design parameters:

Collapse Mud weight: 9.200 ppg Design is based on evacuated pipe.

Collapse: Design factor 1.125

Environment: H2S considered? Surface temperature:

No 65 °F 177 °F

Bottom hole temperature: Temperature gradient:

368 ft Minimum section length:

1.40 °F/100ft

Burst:

Tension:

8 Round STC:

8 Round LTC:

Design factor 1.00

Minimum design factors:

Cement top:

6,694 ft

Burst

Max anticipated surface

pressure: 0 psi 0.478 psi/ft Internal gradient: Calculated BHP 3,823 psi

No backup mud specified.

Buttress: Premium: Body yield: 1.60 (J) 1.50 (J) 1.50 (B)

1.80 (J)

1.80 (J)

Tension is based on air weight. Neutral point: 6,900 ft Non-directional string.

Run	Segment		Nominal		End	True Vert	Measured	Drift	Internal
Seq	Length (ft)	Size (in)	Weight (Ibs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Capacity (ft³)
1	8000	4.5	11.60	J-55	LT&C	8000	8000	3.875	185.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3823	4960	1.297	3823	5350	1.40	93	162	1.75 J

Prepared

Clinton Dworshak

Utah Div. of Oil & Mining

Phone: 801-538-5280

FAX: 801-359-3940

Date: October 14,2004 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8000 ft, a mud weight of 9.2 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

002

From:

Ed Bonner

To:

Whitney, Diana

Date:

11/15/2004 11:36:33 AM

Subject:

Well Clearance

The following wells have been given cultural resource clearance by the Trust Lands Cultural Resources Group:

Robert L Bayless, Producer LLC Buttermilk State #1

Westport Oil & Gas Company NBU 1021-16M 🗸

The Houston Exploration Company Bonanza 4-29

ConocoPhillips Company Utah 33-530

Crescendo Energy, LLC State #2-3

Gasco Production Company
Desert Spring State 41-36-9-18

If you have any questions regarding this matter please give me a call.

CC:

Garrison, LaVonne; Hill, Brad; Hunt, Gil



State of Utah

Department of Natural Resources

ROBERT L. MORGAN Executive Director

Division of Oil, Gas & Mining

LOWELL P. BRAXTON Division Director OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

December 2, 2004

Crescendo Energy, LLC P O Box 1814 Midland, TX 79702

Re:

State 2-3 Well, 2536' FNL, 1858' FWL, SE NW, Sec. 2, T. 16 South,

R. 24 East, Grand County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-019-31411.

Sincerely,

John R. Baza

Associate Director

pab Enclosures

cc: Grand County Assessor

SITLA



Operator:	Crescendo Energy, LLC	
Well Name & Number	State 2-3	
API Number:	43-019-31411	
Lease:	ML-22208	1

Location: SE NW Sec. 2 T. 16 South R. 24 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
- 5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
- 6. Surface casing shall be cemented to the surface.

Page 2 API #43-019-31411 December 2, 2004

7. In accordance with cause No. 149-1, no more than one well shall produce from the same sand interval or zone in each drilling unit (W 1/2 Sec. 2).

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES

ι	G		SE DESIGNATION AND SERIAL NUMBER:		
SUNDRY	NOTICES AND REPORTS	s o	N WELLS	6. IF II	NDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill no drill horizontal lat	w wells, significantly deepen existing wells below curerals. Use APPLICATION FOR PERMIT TO DRILL!	rent bo	ottom-hole depth, reenter plugged wells, or to r such proposals.	Sar 8. WE	T or CA AGREEMENT NAME: Arroyo Unit and other wells LL NAME and NUMBER:
2. NAME OF OPERATOR:					attached NUMBER:
Slate River Resources, LL	c <i>Na7a5</i>			See	attach
3. ADDRESS OF OPERATOR: 418 Main Street, Ste. 18	Vernal STATE UT ZIP	840	PHONE NUMBER: (435) 781-1870		ELD AND POOL, OR WILDCAT: B attached
4. LOCATION OF WELL	STATE C. ZIP		10 1(100)101 1010		
FOOTAGES AT SURFACE: See att	ached schedule of wells			COUN	ry: Grand
QTR/QTR, SECTION, TOWNSHIP, RANG				STATE	UTAH
11. CHECK APPR	ROPRIATE BOXES TO INDICAT	ΈN	IATURE OF NOTICE, REPO	RT, O	R OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION		*
☐ NOTICE OF INTENT	ACIDIZE		DEEPEN		REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING		FRACTURE TREAT		SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR		NEW CONSTRUCTION		TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	V	OPERATOR CHANGE		TUBING REPAIR
	CHANGE TUBING		PLUG AND ABANDON		VENT OR FLARE
SUBSEQUENT REPORT	CHANGE WELL NAME	$\overline{\Box}$	PLUG BACK	$\overline{\Box}$	WATER DISPOSAL
(Submit Original Form Only)	CHANGE WELL STATUS	$\overline{\Box}$	PRODUCTION (START/RESUME)	\neg	WATER SHUT-OFF
Date of work completion:	COMMINGLE PRODUCING FORMATIONS	\exists	RECLAMATION OF WELL SITE		OTHER:
	CONVERT WELL TYPE	Ħ	RECOMPLETE - DIFFERENT FORMATION	لسما	
Crescendo Energy, LLC is interest of Crescendo Energy, LLC to Crescendo Energy, LLC to Operator of the San Arroyo The Bond numbers for Slatstate of Utah DOGM Bond State of Utah Bond of Less Federal Utah Statewide Bo	See B001760 \$ 15,000 bein and UTB000187 \$ 25,000 bein N 1365	ate liste the list 20	River Resources, LLC. All the River Resources, LLC. We wells listed on the attached some solutions.	e well: reque: chedu	st a change of Operator from tle, including a change of River Resources, LLC
NAME (PLEASE PRINT) Gary D. Da	ıvis		птьв President, Slate F	River	Resources, LLC
SIGNATURE	6		DATE 11/10/2005		
(This space for State use only) APPROV	ED 11129105			 .	RECEIVED

(5/2000)

Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

NOV 1 6 2005

DIV. OF OIL, GAS & MINING

SLATE RIVER RESOURCES, LLC, OPERATOR

49.079-070-090 GRESCE** ASST	API We., Number		Well Name	Well Type	Well Status	Field Name	County Name	Otr/Otr	Section	Townshin-Panna		PNL
\$4.929 1979-1906 GRESCON GRESCON SATE 36-7 Gas Well Problems SAT CANYON GAMAD SATE 36-7 M. 202001 17-20-7-20-7-20-7-20-7-20-7-20-7-20-7-20	43-019- 30570 -00-0	CRESCENL . ERGY H.C										+
\$4.000 1918-2000 GRESCON 1000	43-019-31162-00-0	CRESCEN ROLLOC	ARCO STATE 36-7					-	 			+
3-3009 - MARCHARD - MESCLE - M	43-019-31192-00-0	CRESCENDU LINERGI ELC	ARCO STATE 36-8	Gas Well					 		 	
3-99-9-74-0-06 CRESCOND CRE	43-019-30240-00-0	CRESCENDO FLA RGY LLC	ARCO-STATE 2-1									
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43-019-15903-00-0 CRESCENDO E. RG. LC. SAN ARROYO 22 Gas Well Producing SAN ARROYO GRAND SENW 19 165-26E U-5011-A 219 16019-15903-00-0 CRESCENDO F. RG. LC. SAN ARROYO 24 Gas Well Producing SAN ARROYO GRAND SENW 19 165-26E U-50136529 111 111 111 111 111 111 111 111 111 1	43-019-15901-00-0	CRESCENDO ELLIRO LO	SAN ARROYO 21	Gas Well	Producing					***************************************		
43-019-15903-00-0 CRESCENDO F. R.C. L.C. SAN ARROYO 24 Gas Well Producing SAN ARROYO GRAND SENW 19 165-26E U-6188 769 43-019-15905-00-0 CRESCENDO R.C. L.C. SAN ARROYO 25 Gas Well Producing SAN ARROYO GRAND SWNE 21 165-25E U-136529 111 43-019-15905-00-0 CRESCENDO R.C. L.C. SAN ARROYO 27 Gas Well Producing SAN ARROYO GRAND NESW 20 165-26E U-25297 78 43-019-15906-00-0 CRESCENDO R.C. L.C. SAN ARROYO 27 Gas Well Producing SAN ARROYO GRAND NESW 29 165-26E U-6021 78 43-019-15908-00-0 CRESCENDO R.C. L.C. SAN ARROYO 29 Gas Well Producing SAN ARROYO GRAND NEW 29 165-26E U-5650 634 43-019-15908-00-0 CRESCENDO R.C. L.C. SAN ARROYO 29 Gas Well Producing SAN ARROYO GRAND NEW 29 165-26E U-5650 634 43-019-15909-00-0 CRESCENDO R.C. L.C. SAN ARROYO 30 Gas Well Producing SAN ARROYO GRAND NEW 29 165-26E U-5650 945 43-019-3909-00-0 CRESCENDO R.C. L.C. SAN ARROYO 30 Gas Well Producing SAN ARROYO GRAND NEW 22 165-25E U-370-A 739 43-019-30528-00-0 CRESCENDO R.C. L.C. SAN ARROYO 31 Gas Well Producing SAN ARROYO GRAND NEW 22 165-25E U-370-A 739 43-019-30528-00-0 CRESCENDO R.C. L.C. SAN ARROYO 32 Gas Well Producing SAN ARROYO GRAND NEWN 21 165-25E U-3669 197 43-019-30528-00-0 CRESCENDO R.C. L.C. SAN ARROYO 32 Gas Well Producing SAN ARROYO GRAND SWSW 14 165-25E U-3669 197 43-019-310508-00-0 CRESCENDO R.C. L.C. SAN ARROYO 33 Gas Well Producing SAN ARROYO GRAND SWSW 14 165-25E U-369 187 43-019-31050-00-0 CRESCENDO R.C. L.C. SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SWSW 14 165-25E U-369 187 43-019-31250-00-0 CRESCENDO R.C. L.C. SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWSW 16 165-25E U-369 187 43-019-31250-00-0 CRESCENDO R.C. L.C. SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWNE 10 165-25E U-3650 202 43-019-31250-00-0 CRESCENDO R.C. L.C. SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWNE 10 165-25E U-5650 202 43-019-31250-00-0 CRESCENDO R.C. L.C. SAN ARROYO 40 Gas Well Producing SAN ARROYO GRAND SWNE 10 165-25E U-5650 202 43-019-31250-00-0 CRESCENDO R.C. L.C. SAN ARROYO 40 Gas Well Producing SAN ARROYO GRAND NWNE	43-019-15902-00-0	CRESCENDO ELERGY LLC	SAN ARROYO 22	Gas Well	Producing							
43-019-15906-00-0 CRESCENDO ROLLEGA SAN ARROYO 25 Gas Well Producing SAN ARROYO GRAND SWSW 20 165-26E U-25297 78 78 78-019-15906-00-0 CRESCENDO ROLLEGA SAN ARROYO 26 Gas Well Producing SAN ARROYO GRAND NESW 29 165-26E U-25297 78 78 78-019-15906-00-0 CRESCENDO ROLLEGA SAN ARROYO 27 Gas Well Producing SAN ARROYO GRAND NESW 29 165-26E U-6021 78 78 78-019-15908-00-0 CRESCENDO ROLLEGA SAN ARROYO 28 Gas Well Producing SAN ARROYO GRAND NESW 29 165-26E U-5650 634 78-019-15908-00-0 CRESCENDO ROLLEGA SAN ARROYO 29 Gas Well Producing SAN ARROYO GRAND NESW 29 165-26E U-5650 634 78-019-15908-00-0 CRESCENDO ROLLEGA SAN ARROYO 30 Gas Well Producing SAN ARROYO GRAND NESW 21 165-25E U-370-A 739 78-019-30528-00-0 CRESCENDO ROLLEGA SAN ARROYO 30 Gas Well Producing SAN ARROYO GRAND NESW 21 165-25E U-370-A 739 78-019-30528-00-0 CRESCENDO ROLLEGA SAN ARROYO 31 Gas Well Producing SAN ARROYO GRAND NESW 21 165-25E U-370-A 739 78-019-30528-00-0 CRESCENDO ROLLEGA SAN ARROYO 31 Gas Well Producing SAN ARROYO GRAND NESW 21 165-25E U-370-A 739 78-019-30528-00-0 CRESCENDO ROLLEGA SAN ARROYO 33 Gas Well Producing SAN ARROYO GRAND NESW 25 165-25E U-3699 197 78-019-310508-00-0 CRESCENDO ROLLEGA SAN ARROYO 33 Gas Well Producing SAN ARROYO GRAND SWSW 14 165-25E U-3699 197 78-019-310508-00-0 CRESCENDO ROLLEGA SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SWSW 25 165-25E U-3699 197 78-019-31251-00-0 CRESCENDO ROLLEGA SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWSW 25 165-25E U-3699 197 78-019-31251-00-0 CRESCENDO ROLLEGA SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND SWSW 20 165-25E U-6188 304 78-019-31251-00-0 CRESCENDO ROLLEGA SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND SWSW 20 165-25E U-6188 304 78-019-31251-00-0 CRESCENDO ROLLEGA SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND SWSW 20 165-25E U-6188 304 78-019-31251-00-0 CRESCENDO ROLLEGA SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND NESE 30 165-25E U-6021 600 78-019-31291-00-0 CRESCENDO ROLLEGA SAN ARROYO 40 Gas Well Producing SAN ARROYO GRAND NESE 30 165-25E U-6021 60	43-019-15903-00-0	CRESCENDO ENERGY LLC	SAN ARROYO 24	Gas Well	Producing		******					1
43-019-15905-00-0 CRESCENDO ELECTRO REAL CLE SAN ARROYO 26 Gas Well Producing SAN ARROYO GRAND NESW 20 165-26E U-5021 78 43-019-15906-00-0 CRESCENDO ELECTRO ELECTRO CLE SAN ARROYO 28 Gas Well Producing SAN ARROYO GRAND NESW 29 165-26E U-5021 78 43-019-15908-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 28 Gas Well Producing SAN ARROYO GRAND NESW 29 165-26E U-5050 634 43-019-15908-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 29 Gas Well Producing SAN ARROYO GRAND NESW 29 165-26E U-5050 634 43-019-15908-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 30 Gas Well Producing SAN ARROYO GRAND NESW 21 165-25E U-570-A 540 43-019-30527-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 31 Gas Well Producing SAN ARROYO GRAND NESW 21 165-25E U-570-A 730 43-019-30527-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 31 Gas Well Producing SAN ARROYO GRAND NWW 21 165-25E U-570-A 730 43-019-30528-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 31 Gas Well Producing SAN ARROYO GRAND NWW 21 165-25E U-570-A 730 43-019-310528-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 33 Gas Well Producing SAN ARROYO GRAND NWW 22 165-25E U-501-B 130 43-019-31059-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 33 Gas Well Producing SAN ARROYO GRAND SWSW 14 165-25E U-509 197 43-019-31251-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SWSW 25 165-25E U-369 197 43-019-31251-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 35-A Gas Well Producing SAN ARROYO GRAND SESE 19 165-25E U-569 10-569 10-509-31251-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 36-A Gas Well Producing SAN ARROYO GRAND SWNE 20 165-25E U-5650 202 43-019-31251-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 36 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-25E U-5650 202 43-019-31251-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 36 GAS Well Producing SAN ARROYO GRAND SWNE 27 165-25E U-500-30 10-30-31250-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 36 GAS Well Producing SAN ARROYO GRAND NESE 30 165-25E Not CLE Lease 134 43-019-31250-00-0 CRESCENDO ELECTRO CLE SAN ARROYO 40 GAS Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6023 10-6019-31301-00-0 CRESCENDO CLE SAN AR	43-019-15904-00-0	CRESCENDE REALLED	SAN ARROYO 25	Gas Well	Producing	SAN ARROYO	GRAND		21			1111
43-019-15906-00-0 CRESCENDO - REV ALC SAN ARROYO 27 Gas Well Producing SAN ARROYO GRAND NESW 29 165-26E U-5650 634 43-019-15907-00-0 CRESCENDO - REV ALC SAN ARROYO 28 Gas Well Producing SAN ARROYO GRAND NEWE 29 165-26E U-5650 634 43-019-15908-00-0 CRESCENDO - RESCENDO - RESC	43- 019-1590 5-00-0	CRESCENDO : MERCO PLO	SAN ARROYO 26	Gas Well	Producing	SAN ARROYO	GRAND	SWSW	20			
43-019-15908-00-0 CRESCENDO ROLL SAN ARROYO 28 Gas Well Producing SAN ARROYO GRAND NWNE 29 165-26E U-5650 634 43-019-15908-00-0 CRESCENDO ROLL SAN ARROYO 29 Gas Well Producing SAN ARROYO GRAND NESE 22 165-25E U-370-A 540 43-019-15909-00-0 CRESCENDO ROLL SAN ARROYO 31 Gas Well Producing SAN ARROYO GRAND NWSW 21 165-26E U-5650 945 43-019-30527-00-0 CRESCENDO ROLL SAN ARROYO 31 Gas Well Shut-In SAN ARROYO GRAND NWW 22 165-25E U-370-A 739 43-019-30528-00-0 CRESCENDO ROLL SAN ARROYO 32 Gas Well Producing SAN ARROYO GRAND SWSW 25 165-25E U-5011-8 130 43-019-30508-00-0 CRESCENDO ROLL SAN ARROYO 33 Gas Well Producing SAN ARROYO GRAND SWSW 25 165-25E U-369 197 43-019-3109-00-0 CRESCENDO ROLL SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SWSW 25 165-25E U-369 197 43-019-31251-00-0 CRESCENDO ROLL SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWSW 25 165-25E U-369 197 43-019-31252-00-0 CRESCENDO ROLL SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SESW 24 165-25E U-369 197 43-019-31252-00-0 CRESCENDO ROLL SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SESW 20 165-26E U-6188 304 43-019-31252-00-0 CRESCENDO ROLL SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-26E U-6188 304 43-019-31252-00-0 CRESCENDO ROLL SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-26E U-5650 202 43-019-31252-00-0 CRESCENDO ROLL SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-25E U-370-A 148 43-019-31250-00-0 CRESCENDO ROLL SAN ARROYO 40 Gas Well Shut-In SAN ARROYO GRAND NWNE 27 165-25E U-370-A 148 43-019-31250-00-0 CRESCENDO ROLL SAN ARROYO 42 Gas Well Producing SAN ARROYO GRAND NENE 30 165-25E NOLCELease 134 43-019-31250-00-0 CRESCENDO ROLL SAN ARROYO 42 Gas Well Producing SAN ARROYO GRAND NENE 30 165-25E U-6023 130 43-019-31250-00-0 CRESCENDO ROLL SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NENE 30 165-25E U-6023 130 43-019-31250-00-0 CRESCENDO ROLL SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6023 130 43-019-31300-00-0 CRESCENDO ROLL SAN ARROYO 44 Gas Well Producing	43- 019-15906 -00-0	CRESCENDO SUBBLEY CLC	SAN ARROYO 27	Gas Well	Producing	SAN ARROYO	GRAND		29			787
43-019-15908-00-0 CRESCENDO FREDE LC SAN ARROYO 30 Gas Well Producing SAN ARROYO GRAND NENE 22 165-25E U-370-A 540 (43-019-15909-00-0 CRESCENDO FRED LC SAN ARROYO 30 Gas Well Producing SAN ARROYO GRAND NWSW 21 165-26E U-5650 945 (43-019-30527-00-0 CRESCENDO FRED LC SAN ARROYO 31 Gas Well Shut-In SAN ARROYO GRAND NWNW 22 165-25E U-370-A 739 (43-019-30528-00-0 CRESCENDO FRED LC SAN ARROYO 32 Gas Well Producing SAN ARROYO GRAND SWSW 14 165-25E U-5011-8 130 (43-019-30508-00-0 CRESCENDO FRED LC SAN ARROYO 33 Gas Well Producing SAN ARROYO GRAND SWSW 25 165-25E U-369 197 (43-019-31251-00-0 CRESCENDO FRED LC SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SWSW 25 165-25E U-369 187 (43-019-31251-00-0 CRESCENDO FRED LC SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SESW 24 165-25E U-369 187 (43-019-31251-00-0 CRESCENDO FRED LC SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SESW 24 165-25E U-369 187 (43-019-31251-00-0 CRESCENDO FRED LC SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SESW 24 165-25E U-369 187 (43-019-31251-00-0 CRESCENDO FRED LC SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SESW 24 165-25E U-369 187 (43-019-31250-00-0 CRESCENDO FRED LC SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-26E U-5650 202 (43-019-31250-00-0 CRESCENDO FRED LC SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND SWNE 16 165-25E ML-4113 139 (43-019-31250-00-0 CRESCENDO FRED LC SAN ARROYO 40 Gas Well Shut-In SAN ARROYO GRAND NENE 36 165-25E U-370-A 148 (43-019-31250-00-0 CRESCENDO FRED LARG LC SAN ARROYO 42 Gas Well Producing SAN ARROYO GRAND NENE 36 165-25E U-370-A 148 (43-019-31250-00-0 CRESCENDO FRED LARG LC SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NENE 36 165-25E U-370-A 148 (43-019-31250-00-0 CRESCENDO FRED FRED LARG LC SAN ARROYO 43 GAS Well Producing SAN ARROYO GRAND NENE 36 165-25E U-6021 600 43-019-31250-00-0 CRESCENDO FRED FRED LARG LC SAN ARROYO 43 GAS Well Producing SAN ARROYO GRAND NENE 30 165-26E U-6021 600 43-019-31301-00-0 CRESCENDO FRED LARG LC SAN ARROYO 44 GAS Well Producing SAN ARR	43-019-15907-00-0	CRESCENDO LA CRUELLEC	SAN ARROYO 28	Gas Well	Producing	SAN ARROYO	GRAND	NWNE	29			,
43-019-15909-00-0 CRESCENDO FIGRALIC SAN ARROYO 30 Gas Well Producing SAN ARROYO GRAND NWSW 21 165-26E U-5650 945 43-019-30527-00-0 CRESCENDO FIGRACY LC SAN ARROYO 31 Gas Well Producing SAN ARROYO GRAND NWNW 22 165-25E U-370-A 739 43-019-31251-00-0 CRESCENDO FIGRACY LC SAN ARROYO 33 Gas Well Producing SAN ARROYO GRAND SWSW 14 165-25E U-369 197 43-019-31251-00-0 CRESCENDO FIGRACY LC SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SWSW 25 165-25E U-369 197 43-019-31251-00-0 CRESCENDO FIGRACY LC SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SESW 24 165-25E U-369 187 43-019-31251-00-0 CRESCENDO FIGRACY LC SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SESW 24 165-25E U-369 187 43-019-31251-00-0 CRESCENDO FIGRACY LC SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SESW 24 165-25E U-369 187 43-019-31251-00-0 CRESCENDO FIGRACY LC SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SESW 24 165-25E U-5650 202 43-019-31253-00-0 CRESCENDO FIGRACY LC SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-26E U-5650 202 43-019-31253-00-0 CRESCENDO FIGRACY LC SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-25E U-370-A 148 43-019-31250-00-0 CRESCENDO FIGRACY LC SAN ARROYO 40 Gas Well Shut-In SAN ARROYO GRAND NWNE 27 165-25E U-370-A 148 43-019-31290-00-0 CRESCENDO FIGRACY LC SAN ARROYO 41 Gas Well Producing SAN ARROYO GRAND NENE 36 165-25E U-370-A 148 43-019-31290-00-0 CRESCENDO FIGRACY LC SAN ARROYO 42 Gas Well Producing SAN ARROYO GRAND NENE 36 165-25E Not CELease 134 43-019-31290-00-0 CRESCENDO FIGRACY LC SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NENE 30 165-26E U-6023 130 43-019-31291-00-0 CRESCENDO FIGRACY LC SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6023 130 43-019-31301-00-0 CRESCENDO FIGRACY LC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6023 130 43-019-31301-00-0 CRESCENDO FIGRACY LC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6023 1-6023 1-6023 1-6023 1-6023 1-6023 1-6023 1-6023 1-6023 1-6023 1-6023 1-6023 1	43-019-15908-00-0	CRESCENDO L TRO LLC	SAN ARROYO 29	Gas Well	Producing	SAN ARROYO	GRAND	NENE	22	16S-25E	U-370-A	
43-019-30527-00-0 CRESCENDO BURCY LLC SAN ARROYO 31 Gas Well Shut-In SAN ARROYO GRAND NWW 22 165-25E U-370-A 739 43-019-30528-00-0 CRESCENDO BURCY LLC SAN ARROYO 32 Gas Well Producing SAN ARROYO GRAND SWSW 14 165-25E U-5011-B 130 43-019-31050-00-0 CRESCENDO BURCY LLC SAN ARROYO 33 Gas Well Producing SAN ARROYO GRAND SWSW 25 165-25E U-369 197 43-019-31251-00-0 CRESCENDO BURCY LLC SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SESW 24 165-25E U-369 187 43-019-31251-00-0 CRESCENDO BURCY LLC SAN ARROYO 36-A Gas Well Producing SAN ARROYO GRAND SESE 19 165-26E U-6188 304 43-019-31252-00-0 CRESCENDO BURCY LLC SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-26E U-5650 202 43-019-31253-00-0 CRESCENDO BURCY LLC SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-25E ML-4113 139 43-019-31250-00-0 CRESCENDO BURCY LLC SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND SWNE 16 165-25E ML-413 139 43-019-31250-00-0 CRESCENDO BURCY LLC SAN ARROYO 40 Gas Well Shut-In SAN ARROYO GRAND SWNE 27 165-25E NL-410-314-314-314-314-314-314-314-314-314-314	43-019-15909-00-0	CRESCENDO Pharea LLC	SAN ARROYO 30	Gas Well	Producing	SAN ARROYO	GRAND	NWSW	21	16S-26E	U-5650	945
43-019-30528-00-0 CRESCENDO BREGGY LC SAN ARROYO 32 Gas Well Producing SAN ARROYO GRAND SWSW 14 165-25E U-369 197 43-019-30508-00-0 CRESCENDO BREGGY LC SAN ARROYO 33 Gas Well Producing SAN ARROYO GRAND SWSW 25 165-25E U-369 197 43-019-31251-00-0 CRESCENDO BREGGY LC SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SESW 24 165-25E U-369 187 43-019-31251-00-0 CRESCENDO BREGGY LC SAN ARROYO 36-A Gas Well Producing SAN ARROYO GRAND SESE 19 165-26E U-6188 304 43-019-31252-00-0 CRESCENDO BREGGY LC SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-26E U-5650 202 43-019-31253-00-0 CRESCENDO BREGGY LC SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-25E ML-4113 139 43-019-31250-00-0 CRESCENDO BREGGY LC SAN ARROYO GAS Well Shut-In SAN ARROYO GRAND NWNE 27 165-25E U-370-A 148 43-019-31289-00-0 CRESCENDO BREGGY LC SAN ARROYO 41 Gas Well Producing SAN ARROYO GRAND NENE 36 165-25E Not CE Lease 134 43-019-31290-00-0 CRESCENDO BREGGY LC SAN ARROYO 42 Gas Well Producing SAN ARROYO GRAND NENE 36 165-25E Not CE Lease 134 43-019-31290-00-0 CRESCENDO BREGGY LC SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NENE 36 165-26E U-6023 130 43-019-31291-00-0 CRESCENDO BREGGY LC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6023 130 43-019-31291-00-0 CRESCENDO BREGGY LC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND NESE 29 165-26E U-6023 130 43-019-31301-00-0 CRESCENDO BREGGY LC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND NESE 29 165-26E U-6023 130 43-019-31301-00-0 CRESCENDO BREGGY LC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND NESE 29 165-26E U-6023 130	43-019-30527-00-0	CRESCENDE : "RG: LLC	SAN ARROYO 31	Gas Well	Shut-In	SAN ARROYO	GRAND	NWNW	22			739
43-019-30608-00-0 CRESCENDO ERERCY LC SAN ARROYO 33 Gas Well Producing SAN ARROYO GRAND SWSW 25 165-25E U-369 197 43-019-11090-00-0 CRESCENDO EREGAL LC SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SESW 24 165-25E U-369 187 43-019-31251-00-0 CRESCENDO ERERCE LLC SAN ARROYO 36-A Gas Well Producing SAN ARROYO GRAND SESE 19 165-26E U-6188 304 43-019-31252-00-0 CRESCENDO ERERCE LLC SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-26E U-5650 202 43-019-31253-00-0 CRESCENDO ERERCE LLC SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND SWNE 16 165-25E ML-4113 139 43-019-31250-00-0 CRESCENDO ERERCE LC SAN ARROYO 40 Gas Well Shut-In SAN ARROYO GRAND NWNE 27 165-25E U-370-A 148 43-019-31289-00-0 CRESCENDO ERERCE LC SAN ARROYO 41 Gas Well Producing SAN ARROYO GRAND NENE 36 165-25E Not CE Lease 134 43-019-31290-00-0 CRESCENDO ERERCE LC SAN ARROYO 42 Gas Well Producing SAN ARROYO GRAND NENE 30 165-26E U-6023 130 43-019-31291-00-0 CRESCENDO ERERCE LC SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6023 130 43-019-31301-00-0 CRESCENDO ERERCE LC SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NESE 29 165-26E U-6023 130 43-019-31301-00-0 CRESCENDO ERERCE LC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6023 130 43-019-31301-00-0 CRESCENDO ERERCE LC SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NESE 29 165-26E U-6021 600 43-019-31301-00-0 CRESCENDO ERERCE LC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6023 U-6023 130 43-019-31301-00-0 CRESCENDO ERERCE LC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6023 U-60	43-019-30528-00-0	CRESCENDO EMERCY LLC	SAN ARROYO 32	Gas Well	Producing	SAN ARROYO	GRAND	SWSW	14	16S-25E	U-5011-B	1305
43-019-31251-00-0 CRESCENDO ENGRACELLO SAN ARROYO 35 Gas Well Producing SAN ARROYO GRAND SESS 24 165-25E U-369 187 43-019-31251-00-0 CRESCENDO ENGRACELLO SAN ARROYO 36-A Gas Well Producing SAN ARROYO GRAND SESE 19 165-26E U-6188 304 43-019-31252-00-0 CRESCENDO ENGRACELLO SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-26E U-5650 202 43-019-31253-00-0 CRESCENDO ENGRACELLO SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND SWNE 16 165-25E ML-4113 139 43-019-31250-00-0 CRESCENDO ENGRACELLO SAN ARROYO 40 Gas Well Shut-In SAN ARROYO GRAND NWNE 27 165-25E U-370-A 148 43-019-31289-00-0 CRESCENDO ENGRACELLO SAN ARROYO 41 Gas Well Producing SAN ARROYO GRAND NENE 36 165-25E Not CE Lease 134 43-019-31290-00-0 CRESCENDO ENGRACELLO SAN ARROYO 42 Gas Well Producing SAN ARROYO GRAND NENE 36 165-25E Not CE Lease 134 43-019-31291-00-0 CRESCENDO ENGRACELLO SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6023 130 43-019-31291-00-0 CRESCENDO ENGRACELLO SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6023 130 43-019-31301-00-0 CRESCENDO ENGRACELLO SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND NESE 29 165-26E U-6023 130 43-019-31301-00-0 CRESCENDO ENGRACELLO SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND SENE 30 165-26E U-6023				Gas Well	Producing	SAN ARROYO	GRAND	swsw	25	16S-25E	U-369	1977
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43-019-31252-00-0 CRESCENDO ENCROSELC SAN ARROYO 37 Gas Well Producing SAN ARROYO GRAND SWNE 20 165-26E U-5650 202 43-019-31253-00-0 CRESCENDO ENCROSELC SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND SWNE 16 165-25E ML-4113 139 43-019-31250-00-0 CRESCENDO ENCROSELC SAN ARROYO 40 Gas Well Shut-In SAN ARROYO GRAND NWNE 27 165-25E U-370-A 148 43-019-31289-00-0 CRESCENDO ENGRGY ICC SAN ARROYO 41 Gas Well Producing SAN ARROYO GRAND NENE 36 165-25E Not CE Lease 134 43-019-31290-00-0 CRESCENDO ENGRGY ICC SAN ARROYO 42 Gas Well Producing SAN ARROYO GRAND NENE 30 165-26E U-6023 130 43-019-31291-00-0 CRESCENDO ENGRGY ICC SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6021 600 43-019-31301-00-0 CRESCENDO ENGRGY ICC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND NESE 29 165-26E U-6021 600 43-019-31301-00-0 CRESCENDO ENGRGY ICC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND SENE 30 165-26E U-6023				Gas Well				SESE	19			304
43-019-31253-00-0 CRESCENDO ENERGY LC SAN ARROYO 38 Gas Well Producing SAN ARROYO GRAND SWNE 16 165-25E ML-4113 139 43-019-31250-00-0 CRESCENDO ENERGY LC SAN ARROYO 40 Gas Well Shut-In SAN ARROYO GRAND NWNE 27 165-25E U-370-A 148 43-019-31289-00-0 CRESCENDO ENERGY LC SAN ARROYO 41 Gas Well Producing SAN ARROYO GRAND NENE 36 165-25E Not CE Lease 134 43-019-31290-00-0 CRESCENDO ENERGY LC SAN ARROYO 42 Gas Well Producing SAN ARROYO GRAND NESE 30 165-26E U-6023 130 43-019-31291-00-0 CRESCENDO ENERGY LC SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NESE 29 165-26E U-6021 600 43-019-31301-00-0 CRESCENDO ENERGY LC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND SENE 30 165-26E U-6023 130			SAN ARROYO 37	Gas Well	Producing	SAN ARROYO	GRAND	SWNE	20			2025
43-019-31289-00-0 CRESCENDO CRESCEND				Gas Well	Producing	SAN ARROYO	GRAND	SWNE	16	16S-25E	ML-4113	1393
43-019-31290-00-0 CRESCENCY AGRICULT SAN ARROYO 42 Gas Well Producing SAN ARROYO GRAND NESE 30 16S-26E U-6023 130 43-019-31291-00-0 CRESCENDU AGRICULT SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NESE 29 16S-26E U-6021 600 43-019-31301-00-0 CRESCENDU LA RGULT SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND SENE 30 16S-26E U-6023 U-6023			SAN ARROYO 40	Gas Well	Shut-In	SAN ARROYO	GRAND	NWNE	27	16S-25E	U-370-A	1482
43-019-31291-00-0 CRESCENDU AGRACY LLC SAN ARROYO 43 Gas Well Producing SAN ARROYO GRAND NESE 29 165-26E U-6021 600 43-019-31301-00-0 CRESCENDU LL RG, LLC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND SENE 30 165-26E U-6023			SAN ARROYO 41	Gas Well	Producing	SAN ARROYO	GRAND	NENE	36	16S-25E	Not CE Lease	1342
43-019-31301-00-0 CRESCENDE L. RG. LLC SAN ARROYO 44 Gas Well Producing SAN ARROYO GRAND SENE 30 165-26E U-6023			SAN ARROYO 42	Gas Well	Producing	SAN ARROYO	GRAND	NESE	30	16S-26E	U-6023	1300
42.040.21200.00.0			·	Gas Well	Producing	SAN ARROYO	GRAND	NESE	29	165-26E	U-6021	600
43-019-31299-00-0 CRESCENDO ENERGY LLC SAN ARROYO 45 Gas Well Producing SAN ARROYO GRAND NWSE 20 16S-26E U-5650 0			·	Gas Well	Producing	SAN ARROYO	GRAND	SENE	30	16S-26E	U-6023	
	43-019-31299-00-0	CRESCENDO ENERGY LLC	SAN ARROYO 45	Gas Well	Producing	SAN ARROYO	GRAND	NWSE	20	16S-26E	U-5650	0

UTAH SCHEDULE OF WELLS SLATE RIVER RESOURCES, LLC, OPERATOR

43-019-31 126-00-0	CRESCI	SAN ARROYO 49	Gas Well	Producing	SAN ARROYO	GRAND	NENW	29	16S-26E	U-25245	0
43-019-31414-00-0	CRESCENDO C. C. C.	SAN ARROYO U #50	Gas Well	New Permit (Not yet approved or drille	SAN ARROYO	GRAND	NESE	16	16S-25E	ML-4113	0
43-019-31425-00-0	CRESCENDO ENELGY LLC	SAN ARROYO U #51	Gas Well	Approved permit (APD); not yet spudde	SAN ARROYO	GRAND	NESW	15	16S-25E	U-5059-C	10
43-019-31431-00-0	CRESCENDO EL LIBY L. C	SAN ARROYO U #52	Gas Well	Approved permit (APD); not yet spudde	SAN ARROYO	GRAND	SENW	26	16S-25E	USL-71307	10
43-019-31426-00-0	CRESCENDO ENERGY EF CO	SAN ARROYO U #53	Gas Well	Approved permit (APD); not yet spudde	SAN ARROYO	GRAND	NWSE	22	16S-25E	U-370-A	0
43-019-31433-00-0	CRESCENDO EfficieGY and	SAN ARROYO U #54	Gas Well	Approved permit (APD); not yet spudde	SAN ARROYO	GRAND	SESW	19	16S-26E	U-6188	0
43-019-31430-00-0	CRESCENDO E/IL CARLET	SAN ARROYO U #55	Gas Well	Approved permit (APD); not yet spudd	SAN ARROYO	GRAND	SENW	25	16S-25E	U-369	0
43-019-31428-00-0	CRESCENDO ENERGE : 5	SAN ARROYO U #56	Gas Well	Approved permit (APD); not yet spudd	SAN ARROYO	GRAND	NESE	24	16S-25E	U-369	0
43-019-31429-00-0	CRESCENDO ENERGY LLC	SAN ARROYO U #58	Gas Well	Approved permit (APD); not yet spudd	SAN ARROYO	GRAND	SESE	25	16S-25E	U-369	0
43-019-31427-00-0	CRESCENDO TO A DE 1 100	SAN ARROYO U #59	Gas Well	Approved permit (APD); not yet spudd	SAN ARROYO	GRAND	SESE	23	16S-25E	USL-71307	1820
43-019-31411-00-0	CRESCENDO EMPLEY ELC	STATE 2-3	Gas Well	Approved permit (APD); not yet spudd	EAST CANYON	GRAND	SENW	2	16S-24E	ML-22208	1
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STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	State 2-3		
API number:	4301931411		
Location:	Qtr-Qtr: SENW Section: 2	Township: 16S	Range: 24E
Company that filed original application:	Crescendo Energy, LLC		
Date original permit was issued:	12/02/2004		
Company that permit was issued to:	Crescendo Energy, LLC		

Check one	Desired Action:
diam'r.	
	Transfer pending (unapproved) Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
1	Transfer approved Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.				
If located on private land, has the ownership changed?				
If so, has the surface agreement been updated?				
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		✓		
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		1		
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		✓		
Has the approved source of water for drilling changed?		✓		
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		✓		
Is bonding still in place, which covers this proposed well? Bond No. B001556	✓			

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate with VED necessary supporting information as required.

NOV 2 5 2005

Name (please print) Bruce E. Johnston	Title	Vice President Land	DIV. OF OIL, GAS & MINING
Signature Punic James	Date	11/23/2005	
Representing (company name) Slate River Resources, LL	C		

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

(3/2004)

⁵ Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

1. DJJ 2. CDW

Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

X Merger

The operator of the well(s) listed below has changed, effective:				11/1/2005				
FROM: (Old Operator):				TO: (New Operator):				
N1365-Crescendo Energy, LLC				N2725-Slate R	iver Resource	es, LLC		-
1600 Broadway, Suite 900				418 Main St, Suite 18				
Denver, CO 80202				Vernal	, UT 84078			
Phone: 1-(303) 592-4448			Phone: 1-(435) 781-1870 Unit:					
WELL(S)								
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BLACK HORSE CANYON FED 31-1	31	150S	240E	4304730765	8345	Federal	GW	P
ARCO STATE 36-7	36	155S		4301931162		State	GW	P
ARCO STATE 36-8	36	155S	240E	4301931192		State	GW	S
ARCO-STATE 2-1	02	160S		4301930240		State	GW	P
ARCO-STATE 2-2	02	160S		4301930241	520	State	GW	S
STATE 2-3	02	160S		4301931411		State	GW	APD
BITTER CREEK 1	02	160S		4301930047	515	State	GW	P
FEDERAL 6-1	06	160S		4301931410	1	Federal	GW	APD
FEDERAL GILBERT 1	11	160S		4301911089		Federal	GW	P
FEDERAL 174 1	11	160S		4301915884		Federal	GW	P
ARCO 27-1	27	160S	250E	4301930570	11393	Federal	GW	P
		 			_			
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		 	†					
OPERATOR CHANGES DOCUMENE Enter date after each listed item is completed 1. (R649-8-10) Sundry or legal documentation 2. (R649-8-10) Sundry or legal documentation 3. The new company was checked on the Department of the Departmen	was received was received	from the	NEW	operator on:		11/16/200 11/16/200		11/23/2003
			Business Number: 5830411-0161				- 1. 20, 200	
			113	- Dustiness Littilli	<i>∪</i>	2020411-01		
5. If NO, the operator was contacted contacted	on:							
6a. (R649-9-2)Waste Management Plan has beer	n received on:				requested 1	1/23/05		
6b. Inspections of LA PA state/fee well sites con				n/a	. 1	· · · · · ·		
•	-			10 4		1/22/05		
6c. Reports current for Production/Disposition &		requested 1	1/23/03					

7.	Federal and Indian Lease Wells: The BLM and or the BIA or operator change for all wells listed on Federal or Indian leases on:	has approved th	e merger, name change, -
8.	Federal and Indian Units: The BLM or BIA has approved the successor of unit operator for well	n/a	
9.	Federal and Indian Communization Agreements ("CA" The BLM or BIA has approved the operator for all wells listed within	n/a	
10	. Underground Injection Control ("UIC") The Division for the enhanced/secondary recovery unit/project for the water disposal		C Form 5, Transfer of Authority to Inject,
DA	ATA ENTRY:	11/00/0005	
1.	Changes entered in the Oil and Gas Database on:	11/29/2005	_
2.	Changes have been entered on the Monthly Operator Change Spread	11/29/2005	
3.	Bond information entered in RBDMS on:	11/29/2005	-
4.	Fee/State wells attached to bond in RBDMS on:	11/29/2005	_
5.	Injection Projects to new operator in RBDMS on:	n/a	-
6.	Receipt of Acceptance of Drilling Procedures for APD/New on:		11/29/2005
FF	DERAL WELL(S) BOND VERIFICATION:		
	Federal well(s) covered by Bond Number:	UTB000187	_
IN	DIAN WELL(S) BOND VERIFICATION:		
1.	Indian well(s) covered by Bond Number:	n/a	_
FF	EE & STATE WELL(S) BOND VERIFICATION:		
	(R649-3-1) The NEW operator of any fee well(s) listed covered by Bor	B001556	
2.	The FORMER operator has requested a release of liability from their bo The Division sent response by letter on:	ond on: n/a	11/25/2005
L	EASE INTEREST OWNER NOTIFICATION:		
3.	(R649-2-10) The FORMER operator of the fee wells has been contacted of their responsibility to notify all interest owners of this change on:	d and informed byn/a	a letter from the Division
<u>cc</u>	DMMENTS:		
		and the second control of the second control	Company and the second of the second and the second of the
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		The second secon	



Department of Natural Resources

MICHAEL R. STYLER Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR. Governor

GARY R. HERBERT Lieutenant Governor

January 31, 2006

Ginger Stringham Slate River Resources, LLC 418 Main St, Suite 18 Vernal, Utah 84078

Re:

APD Rescinded -State 2-3 Sec. 2, T. 16S R. 24E

Grand County, Utah API No. 43-019-31411

Dear Ms. Stringham:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on December 2, 2004. On January 30, 2006 you requested that the division rescind the state approved APD.

No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective January 30, 2006.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Whitney

Engineering Technician

cc: Well File

SITLA, Ed Bonner